NASA SP-7039(38)
Section 2
Indexes

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NASA Patent Abstracts Bibli...

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NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

JANUARY 1991

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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ACCESSION NUMBER RANGES

Bibliography Number	*STAR Accession Numbers*
NASA SP-7039(04) SEC 1	N69-20701 - N73-33931
NASA SP-7039(12) SEC 1	N74-10001 - N77-34042
NASA SP-7039(13) SEC 1	N78-10001 - N78-22018
NASA SP-7039(14) SEC 1	N78-22019 - N78-34034
NASA SP-7039(15) SEC 1	N79-10001 - N79-21993
NASA SP-7039(16) SEC 1	N79-21994 - N79-34158
NASA SP-7039(17) SEC 1	N80-10001 - N80-22254
NASA SP-7039(18) SEC 1	N80-22255 - N80-34339
NASA SP-7039(19) SEC 1	N81-10001 - N81-21997
NASA SP-7039(20) SEC 1	N81-21998 - N81-34139
NASA SP-7039(21) SEC 1	N82-10001 - N82-22140
NASA SP-7039(22) SEC 1	N82-22141 - N82-34341
NASA SP-7039(23) SEC 1	N83-10001 - N83-23266
NASA SP-7039(24) SEC 1	N83-23267 - N83-37053
NASA SP-7039(25) SEC 1	N84-10001 - N84-22526
NASA SP-7039(26) SEC 1	N84-22527 - N84-35284
NASA SP-7039(27) SEC 1	N85-10001 - N85-22341
NASA SP-7039(28) SEC 1	N85-22342 - N85-36162
NASA SP-7039(29) SEC 1	N86-10001 - N86-22536
NASA SP-7039(30) SEC 1	N86-22537 - N86-33262
NASA SP-7039(31) SEC 1	N87-10001 - N87-20170
NASA SP-7039(32) SEC 1	N87-20171 - N87-30248
NASA SP-7039(33) SEC 1	N88-10001 - N88-20253
NASA SP-7039(34) SEC 1	N88-20254 - N88-30583
NASA SP-7039(35) SEC 1	N89-10001 - N89-20085
NASA SP-7039(36) SEC 1	N89-20086 - N89-30155
NASA SP-7039(37) SEC 1	N90-10001 - N90-20043
NASA SP-7039(38) SEC 1	N90-20044 - N90-30170

This bibliography was prepared by the NASA Scientific and Technical Information Facility operated for the National Aeronautics and Space Administration by RMS Associates.

NASA SP-7039(38)
Section 2
Indexes

NASA

PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and December 1990. This issue supersedes all previous Index Sections.

National Aeronautics and Space Administration
Office of Management
Scientific and Technical Information Division
Washington, DC
1991

This supplement is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161, price code A23.

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 132 citations published in this issue of the Abstract Section cover the period July 1990 through December 1990. The Index Section references over 4900 citations covering the period May 1969 through December 1990.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue includes 10 major subject divisions separated into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category, under which are grouped appropriate NASA inventions.) This scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and, when appropriate, a key illustration taken from the patent or application for patent. Entries are arranged by subject category in order of the ascending NASA Accession Number originally assigned for *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

NASA Accession Number
NASA Case Number
Inventor's Name
Title of Invention
U.S. Patent Application Serial Number
U.S. Patent Number (for issued patents only)
U.S. Patent Office Classification Number(s) (for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (1) use the Subject Category Number to locate the Subject Category and (2) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (not including applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

TYPICAL CITATION AND ABSTRACT

NASA SPONSORED

ACCESSION NUMBER → **N90-21209*** National Aeronautics and Space Administration. Marshall Space Flight Center, Huntsville, AL. ← CORPORATE SOURCE

TITLE → **APPARATUS FOR MIXING SOLUTIONS IN LOW GRAVITY ENVIRONMENTS Patent**

INVENTORS → DANIEL C. CARTER, inventor (to NASA) and MARY B. BROOM, inventor (to NASA) (USpace Research Association, Huntsville, AL.)

NASA CASE NUMBER → 20 Mar. 1990 8 p Filed 15 Sep. 1988 (NASA-CASE-MFS-26047-1;

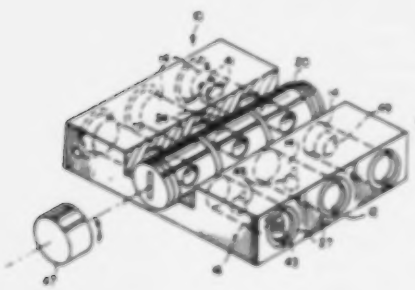
US PATENT APPLICATIONS → US-PATENT-APPL-SN-244369; US-PATENT-4,909,933;

SERIAL NUMBERS → US-PATENT-CLASS-210-94; US-PATENT-CLASS-210-95; US-PATENT-CLASS-210-205; US-PATENT-CLASS-210-247; US-PATENT-CLASS-210-257.1; US-PATENT-CLASS-210-321.6; US-PATENT-CLASS-210-340)

AVAILABILITY SOURCE → Avail: US Patent and Trademark Office CSCL 12A ← COSATI CODE

An apparatus is disclosed for allowing mixing of solutions in low gravity environments so as to carry out crystallization of proteins and other small molecules or other chemical syntheses, under conditions that maximize crystal growth and minimize disruptive turbulent effects. The apparatus is comprised of a housing, a plurality of chambers, and a cylindrical rotatable valve disposed between at least two of the chambers, said valve having an internal passageway so as to allow fluid movement between the chambers by rotation of the valve. In an alternate embodiment of the invention, a valve is provided having an additional internal passage way so that fluid from a third chamber can be mixed with the fluids of the first two chambers. This alternate embodiment of the invention is particularly desirable when it is necessary to provide a termination step to the crystal growth, or if a second synthetic step is required. ← ABSTRACT

Official Gazette of the U.S. Patent and Trademark Office



KEY ILLUSTRATION

Subject Categories

(1969 - 1973)

01 Aerodynamics
Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft; and 32 Soace Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft
Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft; e.g., ground effect machines, STOL, and VTOL; flight tests; operating problems; e.g., sonic boom; safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems
Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences
Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology
Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry
Includes chemical analysis and identification; e.g., spectroscopy. For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications
Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers
Includes computer operation and programming, and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment
Includes electronic test equipment and maintainability; component parts; e.g., electron tubes, tunnel diodes, transistors, integrated circuity; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications; and 21 Navigation.

10 Electronics
Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support
Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities; e.g., rocket engine test stands, shock tubes, and wind tunnels; test ranges; and tracking stations.

12 Fluid Mechanics
Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics
Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography
Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gauges; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes
Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers
Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic
Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic
Includes corrosion; physical and mechanical properties of materials; e.g., plastics; and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics
Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology
Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation
Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering
Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General
Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics; 20 Meteorology; and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear
Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma
Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State
Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants
Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems
Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation
Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences
Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles
Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics
Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion
Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General
Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Revised Subject Categories
(Includes 1974 and 1987 revisions)

AERONAUTICS

Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).

For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.

For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents.

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking* and *32 Communications and Radar*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*. For land transportation vehicles see *85 Urban Technology and Transportation*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft.

For related information see also *20 Spacecraft Propulsion and Power, 28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

For related information see also *05 Aircraft Design, Testing and Performance*.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands.

For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS

Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; space communications, spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.

For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.

For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles.

For related information see also *20 Spacecraft Propulsion and Power*.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques.

For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance*. For space suits see *54 Man/System Technology and Life Support*.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout.

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls.

For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance*, *39 Structural Mechanics*, and *16 Space Transportation*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g. rocket engines; and spacecraft auxiliary power sources.

For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, *44 Energy Production and Conversion*, and *15 Launch Vehicles and Space Vehicles*.

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; propellants and fuels; and materials processing.

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS

Includes physical, chemical, and mechanical properties of laminates and other composite materials.

For ceramic materials see *27 Nonmetallic Materials*.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

For composite materials see *24 Composite Materials*.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

29 MATERIALS PROCESSING

Includes space-based development of products and processes for commercial application.

For biological materials see *55 Space Biology*.

ENGINEERING

Includes engineering (general); communications and radar; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications.

For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking*. For search and rescue see *03 Air Transportation and Safety*, and *16 Space Transportation*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry.

For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling.

For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gauges; detectors; cameras and photographic supplies; and holography.

For aerial photography see *43 Earth Resources and Remote Sensing*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers.

For related information see also *76 Solid-State Physics*.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress.

For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

Includes geosciences (general); earth resources and remote sensing; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *28 Propellants and Fuels*.

45 ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.

For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources.

For related information see also *43 Earth Resources and Remote Sensing*.

LIFE SCIENCES

Includes life sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and space biology.

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

For related information see also *16 Space Transportation*.

55 SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes hardware for computer graphics, firmware, and data processing.

For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

63 CYBERNETICS

Includes feedback and control theory; artificial intelligence, robotics and expert systems.

For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS

Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.

For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For precision time and time interval (PTTI) see *35 Instrumentation and Photography*; for geophysics, astrophysics or solar physics see *46 Geophysics*, *90 Astrophysics*, or *92 Solar Physics*.

71 ACOUSTICS
Includes sound generation, transmission, and attenuation.
For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS
Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS
Includes elementary and nuclear particles; and reactor theory.
For space radiation see *93 Space Radiation*.

74 OPTICS
Includes light phenomena and optical devices.
For lasers see *36 Lasers and Masers*.

75 PLASMA PHYSICS
Includes magnetohydrodynamics and plasma fusion.
For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS
Includes superconductivity.
For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS
Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics.
For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law, political science, and space policy; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)
Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT
Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE
Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography.
For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS
Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY
Includes NASA appropriation hearings; and space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION
Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.
For related information see *03 Air Transportation and Safety*; *16 Space Transportation*; and *44 Energy Production and Conversion*.

SPACE SCIENCES

Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.
For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY
Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS
Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust.
For related information see also *75 Plasma Physics*.

91 LUNAR AND PLANETARY EXPLORATION
Includes planetology and manned and unmanned flights.
For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance*.

92 SOLAR PHYSICS
Includes solar activity, solar flares, solar radiation and sunspots.
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93 SPACE RADIATION
Includes cosmic radiation; and inner and outer earth's radiation belts.
For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL

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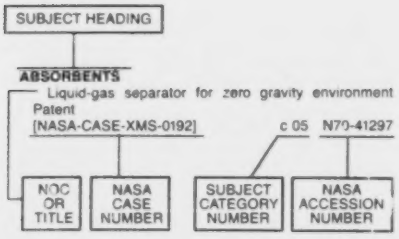

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Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Apparatus for damping operator induced oscillations of a controlled system — flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

ADAPTIVE FILTERS
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Apparatus for damping operator induced oscillations of a controlled system — flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

ADAPTIVE OPTICS
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

ADDING CIRCUITS
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

ADDITION RESINS
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229

ADDITIVES
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

ADDRESSING
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

ADENOSINE TRIPHOSPHATE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 08 N71-17705
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ADHESION
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

ADHESION TESTS
Apparatus for the determination of the existance or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

ADHESIVE BONDING
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397

Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Thermal insulation attaching means — adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-13359-1] c 27 N83-31855
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108

ADHESIVES
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Crystalline polyimides — reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Hot melt recharge system — repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Elastomer toughened polyimide adhesives — bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N89-23692

ADJUSTING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

AERIAL RUDDERS
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

AEROACOUSTICS
Acoustically swept rotor — helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

AERODYNAMIC BALANCE
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

AERODYNAMIC BRAKES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Lightweight, variable solidity knitted parachute fabric — for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034

AERODYNAMIC CHARACTERISTICS
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Airfoil shape for flight at subsonic speeds — design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094

AERODYNAMIC CONFIGURATIONS
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00606] c 02 N70-34858
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Translating horizontal tail Patent
[NASA-CASE-XLA-06801-1] c 02 N71-11043
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Multistage aerospace craft — perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
Supersonic fan blading — noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

AERODYNAMIC DRAG
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13670-1] c 05 N90-15094

AERODYNAMIC HEATING
Heat protection apparatus Patent
[NASA-CASE-XLA-00692] c 33 N71-17897
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947

AERODYNAMIC INTERFERENCE
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

AERODYNAMIC LOADS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

AERODYNAMIC NOISE
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Acoustically swept rotor — helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC STABILITY
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
High lift aircraft — with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

AERODYNAMIC STALLING
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

AEROELASTICITY
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

AERONAUTICAL ENGINEERING
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

AEROSOLS
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

AEROSPACE ENGINEERING
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317

AEROSPACE ENVIRONMENTS
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03968] c 15 N71-21403
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Wobble gear drive mechanism — for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Plasma cleaning device — designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Process for spinning flame retardant elastomeric compositions — fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-26139-1] c 29 N87-18679
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23826
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-1] c 35 N89-12843

AEROSPACE MEDICINE
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

AEROSPACE PLANES
Multistage aerospace craft — perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

AEROSPACE SYSTEMS
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N90-26342

AEROSPACE VEHICLES
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

AFTERBODIES
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

AFTERBURNING
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374

AGGLOMERATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

AGING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

AGRICULTURE
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N78-29701

AILERONS
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809

AIR
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

AIR BREATHING ENGINES
Multiple pure tone elimination strut assembly — air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

AIR CONDITIONING
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

AIR CONDITIONING EQUIPMENT
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902

AIR COOLING
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

AIR FILTERS
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457

AIR FLOW
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Gas turbine combustor Patent
[NASA-CASE-LEW-10266-1] c 28 N71-28915
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Controlled separation combustor — airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18458
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N79-25089
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12936-1] c 07 N82-32366
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25561
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

AIR INTAKES
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Reversed cowl flap inlet thrust augmentor — with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

AIR LOCKS
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 29 N71-27095
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

AIR NAVIGATION
Autonomous navigation system — gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

AIR POLLUTION
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants — through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Combustion engine — for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-26967

AIR PURIFICATION
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

AIR QUALITY
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25581

AIR SAMPLING
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Automated syringe sampler — remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25717

AIR START
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

AIR TRAFFIC CONTROL
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

AIR TRANSPORTATION
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

AIRBORNE EQUIPMENT
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

AIRBORNE/SPACEBORNE COMPUTERS
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914

AIRCRAFT
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

AIRCRAFT ACCIDENTS
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

AIRCRAFT ANTENNAS
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

AIRCRAFT COMPARTMENTS
Low density bismaleimide-carbon microballoon composites — aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

AIRCRAFT CONFIGURATIONS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11138
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

AIRCRAFT CONSTRUCTION MATERIALS
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-26621

AIRCRAFT CONTROL
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27086
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
High lift aircraft — with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

AIRCRAFT INSTRUMENTS
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

AIRCRAFT DESIGN
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Multistage aerospace craft — perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
High lift aircraft — with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N78-29217
Supersonic transport — using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

AIRCRAFT DETECTION
Attitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

AIRCRAFT ENGINES
Noise suppressor — for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Diesel engine catalytic combustor system — aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

AIRCRAFT EQUIPMENT
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-26437
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Fire resistant polyamide based on 1-(diorganooxyphosphoryl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 09 N88-14083
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

AIRCRAFT FUEL SYSTEMS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N79-10467

AIRCRAFT GUIDANCE
Terminal guidance system — for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

AIRCRAFT HAZARDS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

AIRCRAFT HYDRAULIC SYSTEMS
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

AIRCRAFT INSTRUMENTS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

AIRCRAFT LANDING

Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-19609-3] c 03 N76-32140
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

AIRCRAFT LANDING

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22819
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24260
Full color hybrid display for aircraft simulators — landing aids
[NASA-CASE-ARC-10903-1] c 09 N76-18083
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

AIRCRAFT LAUNCHING DEVICES

Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

AIRCRAFT MANEUVERS

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

AIRCRAFT MODELS

Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Deploy/release system — model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

AIRCRAFT NOISE

Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

AIRCRAFT PERFORMANCE

Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

AIRCRAFT PILOTS

Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

AIRCRAFT SAFETY

Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

AIRCRAFT SPIN

Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

AIRCRAFT STABILITY

Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

AIRCRAFT STRUCTURES

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10613-1] c 27 N76-16230
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Elastomer toughened polyimide adhesives — bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

AIRCRAFT TIRES

Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

AIRCRAFT WAKES

System for use in conducting wake investigation for a wing in flight — differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

AIRFOIL PROFILES

Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

AIRFOILS

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05829] c 01 N71-13411
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Surface finishing
[NASA-CASE-MSC-12831-3] c 27 N81-14077
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

AIRFRAMES

Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

AIRSPEED

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

ALBUMINS

Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

ALCOHOLS

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N89-31244
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALDEHYDES

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALGORITHMS

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

ALIGNMENT

Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39896
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21886
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Spacecraft docking and alignment system — using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-18523
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N90-26341
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N90-27111

ALKALI HALIDES
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALI METALS
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-26573
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALINE BATTERIES
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10726
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Polyvinyl alcohol battery separator containing inert filler — alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Additive for zinc electrodes — electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALKALINE EARTH OXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

ALKYL COMPOUNDS
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N71-30101
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-32744
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

ALKYNES
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

ALLOYS
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy
[NASA-CASE XNP-03878] c 26 N75-27127
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

ALPHA PARTICLES
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

ALPHANUMERIC CHARACTERS
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

ALTERNATING CURRENT
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33860
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33861
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

ALTIMETERS
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

ALTITUDE
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

ALTITUDE CONTROL
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

ALUMINUM
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

ALUMINUM ALLOYS
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12607-1] c 24 N84-11214
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

ALUMINUM COATINGS
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Method of protecting the surface of a substrate — by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Method of protecting a surface with a silicon-slurry/aluminide coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Silicon-slurry/aluminide coating — protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS
Synthesis of dawsonites — for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALUMINUM OXIDES
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

ALUMINUM SILICATES
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

AMBIENT TEMPERATURE
High stability amplifier
[NASA-CASE-GSC-12648-1] c 33 N83-34191

AMBIGUITY
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

AMIDES
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078

AMINES
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

AMINO ACIDS

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11429-3] c 23 N88-24692

AMINO ACIDS

Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA

Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES

High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

AMPLIFICATION

Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Bio-isolated dc operational amplifier — for bioelectric measurements
[NASA-CASE-ARC-10586-1] c 33 N74-21851
High power metallic halide laser — amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

AMPLIFIERS

Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19486
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Full wave modulator-demodulator amplifier apparatus — for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reflected-wave maser — low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

AMPLITUDE DISTRIBUTION ANALYSIS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

AMPLITUDE MODULATION

Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

AMPLITUDES

Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

AMPOULES

Ampoule sealing apparatus and process — for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Apparatus and method for heating a material in a transparent ampoule — crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896

ANALGESIA

Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14813
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ANALOG CIRCUITS

Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Continuous Fourier transform method and apparatus — for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

ANALOG COMPUTERS

Analog spatial maneuver computer
[NASA-CASE-GSC-10680-1] c 08 N72-11172

ANALOG DATA

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396

ANALOG SIMULATION

Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

ANALOG TO DIGITAL CONVERTERS

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18504
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-28175
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

ANALYZERS

Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400

ANCHORS (FASTENERS)

Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976

ANECHOIC CHAMBERS

Almond test body — for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

ANEMOMETERS

Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25480

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962

ANGIOGRAPHY
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10085-1] c 52 N79-10724

ANGLE OF ATTACK
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

ANGLES (GEOMETRY)
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

ANGULAR ACCELERATION
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

ANGULAR CORRELATION
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490

ANGULAR DISTRIBUTION
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

ANGULAR MOMENTUM
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379

ANGULAR RESOLUTION
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179

ANGULAR VELOCITY
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Speed control device for a heavy duty shaft — solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695

ANHYDRIDES
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkylenoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides — flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Novel polyimide compositions based on 4,4'-Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14152-1] c 27 N90-15259
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

ANILINE
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230

ANIMALS
Automatic real-time par-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Tread drum for animals — having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ANISOTROPIC MEDIA
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

ANISOTROPY
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

ANNEALING
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
CDS solid state phase insensitive ultrasonic transducer — annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

ANNIHILATION REACTIONS
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472

ANNULAR NOZZLES
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36606
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ANNULAR PLATES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22380

ANNULI
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

ANODES
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Storage battery comprising negative plates of a wedge shaped configuration — for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Reversive anode image converter
[NASA-CASE-HQN-10878-1] c 33 N76-27473
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Ion sputter textured graphite — anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ANODIC COATINGS
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

ANOMALIES
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

ANTENNA ARRAYS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-36200
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12398
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24825
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Position determination systems — using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Frequency translating phase conjugation circuit for active retrodirective antenna array — microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16832-1-CU] c 32 N87-15390
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
Planar microstrip Yagi array antenna
[NASA-CASE-NPO-17873-1-CU] c 32 N90-27015

ANTENNA COMPONENTS
Digital servo controller — for rotating antenna shaft
[NASA-CASE-KSC-10789-1] c 33 N74-29556
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16832-1-CU] c 32 N87-15390

ANTENNA COUPLERS
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ANTENNA DESIGN
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00807] c 07 N71-29979
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-29980
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Dish antenna having switchable beamwidth — with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11780-1] c 33 N75-19516
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Furlable antenna — antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-25539
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16832-1-CU] c 32 N87-15390
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
Planar microstrip Yagi array antenna
[NASA-CASE-NPO-17873-1-CU] c 32 N90-27015

ANTENNA FEEDS
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285

ANTENNA RADIATION PATTERNS

Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Microwave switching power divider — antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

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[NASA-CASE-XMS-05303] c 07 N69-27462
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
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[NASA-CASE-XGS-02290] c 07 N71-28809
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[NASA-CASE-KSC-10729-1] c 09 N73-32110
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[NASA-CASE-NPO-13568-1] c 32 N76-21365
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[NASA-CASE-MSC-16800-1] c 32 N81-14187
Ground plane interference elimination by passive element
[NASA-CASE-NPO-18632-1-CU] c 32 N87-15390

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[NASA-CASE-XGS-09190] c 31 N71-16102
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

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[NASA-CASE-GSC-12046-1] c 52 N79-14750

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[NASA-CASE-NPO-17853-1-CU] c 51 N90-27239

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Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Method of making bearing materials — self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

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Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

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Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

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[NASA-CASE-LEW-11496-1] c 44 N77-14580
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

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Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

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Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Method of making an apertured casting — using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

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Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

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Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

APPLICATIONS OF MATHEMATICS

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

APPROACH

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

AQUATIC PLANTS

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

AQUEOUS SOLUTIONS

Anti-fog composition — for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Method for separating biological cells — suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12186
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N90-26684

ARC DISCHARGES

Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21683
Method and apparatus for nondestructive testing — using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

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Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

ARC JET ENGINES

Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

ARC LAMPS

Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01056] c 09 N71-12540
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22366
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17236
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

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Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147

ARC WELDING

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

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Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

ARCHITECTURE (COMPUTERS)

Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Analog hardware for learning neural networks
[NASA-CASE-NPO-17684-1-CU] c 62 N90-27384

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Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

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VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

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Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Orthotic arm joint — for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

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Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Natural turbulence electrical power generator — using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
AROMATIC COMPOUNDS
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[NASA-CASE-ARC-10592-1] c 27 N74-21156
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[NASA-CASE-ARC-10592-2] c 27 N76-32315
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Process for preparing thermoplastic aromatic polymides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Curing agent for polyepoxides and epoxy resins and composites cured therewith — preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
The 1,1,1-trianyl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
ARRAYS
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Pyroelectric detector arrays
[NASA-CASE-LAR-12383-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12383-2] c 33 N83-24763
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856
ARTERIES
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
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Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097
ARTIFICIAL GRAVITY
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
ARTIFICIAL SATELLITES
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
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Reconstituted asbestos matrix — for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
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Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814
ASPECT RATIO
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
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ASPHALT
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N75-33228
ASSAYING
Rapid, quantitative determination of bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
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[NASA-CASE-XNP-00840] c 15 N70-38225
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[NASA-CASE-LEW-12477-1] c 37 N77-32501
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Resilient seal ring assembly with spring means applying force to wedge member — cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13196-1] c 37 N87-23983
ASSEMBLING
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
ASSEMBLY
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
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Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
ASTRONAUT LOCOMOTION
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
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[NASA-CASE-XMS-09637-1] c 05 N71-24730
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N76-17675
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Hand-held self-maneuvering unit Patent
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[NASA-CASE-XMF-07488] c 11 N71-18773
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[NASA-CASE-XMS-02977] c 11 N71-10746
Mechanical simulator of low gravity conditions Patent
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Subgravity simulator Patent
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Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Manual actuator — for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
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Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
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Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
ASYMMETRY
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
ATMOSPHERIC CHEMISTRY
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487
ATMOSPHERIC COMPOSITION
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
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[NASA-CASE-ARC-11154-1] c 25 N80-23383
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
ATMOSPHERIC DENSITY
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
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[NASA-CASE-XAC-02058] c 02 N71-16087
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[NASA-CASE-XLA-06232] c 25 N71-20563
Orbital and entry tracking accessory for globes — to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
ATMOSPHERIC ENTRY SIMULATION
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
ATMOSPHERIC MOISTURE
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
ATMOSPHERIC PHYSICS
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
ATMOSPHERIC PRESSURE
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of and apparatus for measuring temperature and pressure — atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
ATMOSPHERIC RADIATION
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
ATMOSPHERIC REFRACTION
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
ATMOSPHERIC SCATTERING
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
ATMOSPHERIC SOUNDING
Microwave limb sounder — measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
ATMOSPHERIC TEMPERATURE
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Method of and apparatus for measuring temperature and pressure — atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
ATMOSPHERIC TURBULENCE
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
ATOMIC BEAMS
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
ATOMIC EXCITATIONS
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
ATOMIC STRUCTURE
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
ATOMIZERS
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Constant-output atomizer — inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
ATS
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N89-39978
ATTACHMENT
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
ATTENUATORS
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Pulse transducer with artifact signal attenuator — heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
ATTITUDE (INCLINATION)
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 09 N72-11172
Spacecraft attitude sensor
[NASA-CASE-GSC-10690-1] c 21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

ATTITUDE CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36838
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Ejection unit Patent
[NASA-CASE-XNP-00678] c 15 N70-38996
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17529
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292

ATTITUDE GYROS
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113

ATTITUDE INDICATORS
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35080
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14682
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22994
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 05 N80-18036
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

ATTITUDE STABILITY
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01980] c 21 N70-34295
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

AUDIO EQUIPMENT
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDIO FREQUENCIES
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-29430
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

AUDIO SIGNALS
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

AUDITORY DEFECTS
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

AUDITORY PERCEPTION
Auditory display for the blind
[NASA-CASE-HQN-10632-1] c 71 N74-21014

AUDITORY SIGNALS
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDITORY STIMULI
Auditory display for the blind
[NASA-CASE-HQN-10632-1] c 71 N74-21014

AUGER EFFECT
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36462

AUSTENITIC STAINLESS STEELS
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

AUTOCLAVES
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

AUTOCORRELATION
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

AUTOMATIC CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-00287] c 15 N71-15807
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24805
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-06195] c 10 N71-24981
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Ion thruster magnetic field control
[NASA-CASE-LEW-10635-1] c 28 N72-22771
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19866
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N76-17396
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N76-19466
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N76-25529
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

AUTOMATIC CONTROL VALVES
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17848
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04864] c 09 N69-21543
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC GAIN CONTROL
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC TEST EQUIPMENT
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N78-30793
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

AUTOMOBILE ENGINES
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Controller for computer control of brushless dc motors — automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUTONOMOUS NAVIGATION
Autonomous navigation system — gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

AUTONOMY
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861

AUXILIARY POWER SOURCES
Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVERAGE
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

AVIONICS
Aircraft control position indicator
[NASA-CASE-LAR-12964-1] c 06 N87-22678

AXES (REFERENCE LINES)
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21689
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-29620

AXIAL COMPRESSION LOADS
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N80-21312

AXIAL FLOW
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

AXIAL FLOW PUMPS
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

AXIAL FLOW TURBINES
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20035

AXIAL LOADS
Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AXIAL STRESS
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511

AZIMUTH
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26827
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-18056
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

AZINES
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N78-32315
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Perfluoroallyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

AZO COMPOUNDS
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177

AZOLES
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Polymidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

B

BACK INJURIES
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25862

BACKGROUND NOISE
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

BACKGROUND RADIATION
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411

BACKSCATTERING
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

BACKUPS
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Impact tolerant material
[NASA-CASE-LAR-13987-3] c 24 N90-21822

BALL BEARINGS

BACKWARD WAVES
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

BACTERIA
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23409
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
Rapid, quantitative determination of bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27589

BACTERIOLOGY
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22784
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27877

BAFFLES
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15804
Flexible ring sloshing damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
System for the measurement of ultra-low stray light levels — determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

BAGS
Relief container
[NASA-CASE-XMS-06781] c 05 N69-23192
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

BAKING
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N82-26387

BALANCE
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21558-1] c 35 N74-26945

BALANCING
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Lift balancing device
[NASA-CASE-LAR-10349-1] c 11 N73-12264
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

BALL BEARINGS
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-23480
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21084

Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Spherical bearing — to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32696
Turbomachinery rotor support with damping
[NASA-CASE-MFS-26345-1] c 37 N89-26841
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

BALLAST
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

BALLAST (MASS)
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006

BALLASTS (IMPEDANCES)
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427

BALLISTICS
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

BALLOON SOUNDING
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

BALLOON-BORNE INSTRUMENTS
Rotating-unbalanced-mass devices and methods for scanning balloon-borne experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-26425-1] c 35 N90-26304

BALLOONS
Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

BALLS
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654

BANDPASS FILTERS
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Dichroic plate — as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

BANDWIDTH
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

BARIUM
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

BARIUM COMPOUNDS
Ion thrustor cathode
[NASA-CASE-XLE-07067] c 06 N69-39869

BARIUM FLUORIDES
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

BARIUM ION CLOUDS
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

BARIUM TITANATES
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

BARRIER LAYERS
Schottky barrier solar cell
[NASA-CASE-NPO-13669-2] c 44 N81-29525
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

BARRIERS
Short range laser obstacle detector — for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145

BARS
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

BASES (CHEMICAL)
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

BATTERY CHARGERS
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

BAYARD-ALPERT IONIZATION GAGES
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

BAYS (STRUCTURAL UNITS)
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

BEADS
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BEAM LEADS
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

BEAM SPLITTERS
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for splitting a beam of energy — optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026

BEAM SWITCHING
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Dish antenna having switchable beamwidth — with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

BEAM WAVEGUIDES
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-16287
Multiprism collimator
[NASA-CASE-GSC-12606-1] c 74 N83-10900

BEAMS (RADIATION)
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Method for shaping and aiming narrow beams — sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472

BEAMS (SUPPORTS)
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398

BEARING
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

BEARING (DIRECTION)
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Direction sensitive laser velocimeter — determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

BEARINGS
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Magnetic bearing — for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Suspension system for a wheel rolling on a flat track — bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

BEDS (PROCESS ENGINEERING)
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N36-25428

BEER LAW
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

BEES
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLOWS
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Internally supported flexible duct joint — device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

BELTS
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

BENDING
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-20971
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

BENDING DIAGRAMS
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

BENDING FATIGUE
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

BENDING MOMENTS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

BENDING VIBRATION
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

BENZENE
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525

Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

BERYLLIUM ALLOYS
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

BERYLLIUM HYDRIDES
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

BERYLLIUM OXIDES
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
High modulus rare earth and beryllium containing silicate glass compositions — for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BIDIRECTIONAL REFLECTANCE
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

BIMETALS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bimetallic fluid displacement apparatus — for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

BINARY CODES
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

BINARY DATA
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Modulator for tone and binary signals — phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

BINARY DIGITS
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778

BIOELECTRICITY
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

BINARY FLUIDS
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

BINARY TO DECIMAL CONVERTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINDERS (MATERIALS)
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

BINOCULARS
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

BIOASSAY
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

BIODEGRADATION
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

BIODYNAMICS
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20260

BIOELECTRIC POTENTIAL
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

BIOELECTRICITY
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

BIOENGINEERING

BIOENGINEERING
Bio-isolated dc operational amplifier — for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Bio-medical flow sensor — intrvenous procedures
[NAS/-CASE-MSC-18761-1] c 52 N83-27577
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-26388

BIOINSTRUMENTATION
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Ultrasonic biomedical measuring and recording apparatus — for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Subminiature insertable force transducer — including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18891
Pulse transducer with artifact signal attenuator — heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

BIOLOGICAL EFFECTS
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[NASA-CASE-MSC-21293-1] c 51 N89-14666

BIOLUMINESCENCE
Light detection instrument Patent
[NASA-CASE-XJS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BIOMEDICAL DATA
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771

BIOMETRICS
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Ultrasonic biomedical measuring and recording apparatus — for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Biomedical ultrasonoscope
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Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
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[NASA-CASE-NPO-14329-1] c 52 N81-20703
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Rapid quantification of an internal property — ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

BIOPROCESSING
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[NASA-CASE-MSC-21361-1] c 51 N89-25557

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[NASA-CASE-MSC-21294-1] c 51 N89-13131
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[NASA-CASE-MSC-21361-1] c 51 N89-25557
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[NASA-CASE-MSC-20929-1] c 51 N90-17252
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[NASA-CASE-MSC-21560-1] c 51 N90-18852

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BIOTELEMETRY
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 06 N71-12342
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26825
Medical subject monitoring systems — multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

BIPOLAR TRANSISTORS
Voltage regulator for battery power source — using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-19494

BIREFRINGENCE
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08983] c 23 N71-16101

BISMALEIMIDE
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

BISMUTH
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

BISMUTH COMPOUNDS
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

BIT SYNCHRONIZATION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system — synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

BITERNARY CODE
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

BITS
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

BITUMENS
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15856-1] c 43 N84-23012

BLACK BODY RADIATION
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

BLADDER
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Rapid quantification of an internal property — ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
Rapidly quantifying the relative detention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

BLADE TIPS
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

BLADES
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10486

BLADES (CUTTERS)
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 39 N72-27959

BLOCK COPOLYMERS
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

BLOOD
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Dialysis system — using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

BLOOD FLOW
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus and method for processing Korotkow sounds — for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26826
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Circuit for detecting initial systole and dicrotic notch — for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD VESSELS
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES
Flow field simulation Patent
[NASA-CASE-LAR-11139] c 12 N71-20436

BODIES OF REVOLUTION
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705

Moment of inertia test fixture Patent [NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS

Programmable physiological infusion [NASA-CASE-ARC-10447-1] c 52 N74-22771

Method of detecting and counting bacteria [NASA-CASE-GSC-11917-2] c 51 N76-29891

Micro-fluid exchange coupling apparatus [NASA-CASE-ARC-11114-1] c 51 N81-14805

BODY KINEMATICS

Space suit having improved waist and torso movement [NASA-CASE-ARC-10275-1] c 05 N72-22092

Controller arm for a remotely related slave arm [NASA-CASE-ARC-11052-1] c 37 N79-26551

Kinesimetric method and apparatus [NASA-CASE-MSC-18929-1] c 39 N83-20290

BODY MEASUREMENT (BIOLOGY)

Biomedical ultrasonoscope [NASA-CASE-ARC-10994-1] c 52 N78-33835

Miniature implantable ultrasonic echosonometer [NASA-CASE-ARC-11035-1] c 52 N79-18580

Kinesimetric method and apparatus [NASA-CASE-MSC-18929-1] c 39 N83-20290

Apparatus for determining changes in limb volume [NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY TEMPERATURE

Garments for controlling the temperature of the body Patent [NASA-CASE-XMS-10269] c 05 N71-24147

Miniature ingestible telemeter devices to measure deep-body temperature [NASA-CASE-ARC-10563-1] c 52 N78-29804

Method for thermal monitoring subcutaneous tissue [NASA-CASE-LAR-13029-1] c 52 N85-30618

BODY VOLUME (BIOLOGY)

Whole body measurement systems — for weightlessness simulation [NASA-CASE-MSC-13972-1] c 52 N74-10975

Apparatus for determining changes in limb volume [NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY-WING CONFIGURATIONS

Free wing assembly for an aircraft [NASA-CASE-FRC-10092-1] c 05 N79-12061

Means for controlling aerodynamically induced twist [NASA-CASE-LAR-12175-1] c 05 N82-28279

BOILERS

Boiler for generating high quality vapor Patent [NASA-CASE-XLE-00785] c 33 N71-18104

Shell side liquid metal boiler [NASA-CASE-NPO-10831] c 33 N72-29915

Carbon granule probe microphone for leak detection — recovery boilers [NASA-CASE-NPO-16027-1] c 35 N85-21597

BOILING

Process for making a noble metal on tin oxide catalyst [NASA-CASE-LAR-13741-1-SB] c 25 N80-20190

Boron-containing organosilane polymers and ceramic materials thereof [NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

BOLOMETERS

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent [NASA-CASE-XNP-01193] c 10 N71-16057

Thin film capacitive bolometer and temperature sensor Patent [NASA-CASE-NPO-10807] c 09 N71-27232

Wedge immersed thermistor bolometers [NASA-CASE-XGS-01245-1] c 35 N79-33449

BOLTED JOINTS

Optimized bolted joint [NASA-CASE-LAR-13250-1] c 37 N86-27630

Device for measuring hole elongation in a bolted joint [NASA-CASE-LAR-13453-1] c 37 N88-14361

Clevis joint for deployable space structures [NASA-CASE-LAR-13898-1] c 37 N89-30130

BOLTS

Gas actuated bolt disconnect Patent [NASA-CASE-XLA-00328] c 03 H70-34687

Design weight release Patent [NASA-CASE-XLA-00679] c 15 N70-36601

Inspection gage for boss Patent [NASA-CASE-XMF-04968] c 14 N71-17699

Split nut separation system Patent [NASA-CASE-XNP-06914] c 15 N71-21489

Fastener stretcher [NASA-CASE-GSC-11149-1] c 15 N73-30457

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Bearing-bypass material system test [NASA-CASE-LAR-13458-1] c 35 N89-23967

BONDING

Bonding graphite with fused silver chloride [NASA-CASE-XGS-00983] c 15 N69-39735

Bonded joint and method — for reducing peak shear stress in adhesive bonds [NASA-CASE-LAR-10900-1] c 37 N74-23064

Bonding method in the manufacture of continuous regression rate sensor devices [NASA-CASE-LAR-10337-1] c 24 N75-30260

Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts [NASA-CASE-MSC-14182-1] c 27 N76-14264

Bonding machine for forming a solar array strip [NASA-CASE-NPO-13652-2] c 44 N79-24431

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide [NASA-CASE-GSC-11577-3] c 24 N79-25143

Method of making a partial interlaminar separation composite system [NASA-CASE-LAR-12065-2] c 24 N81-33235

Attachment system for silica tiles — thermal protection for space shuttle orbiter [NASA-CASE-MSC-18741-1] c 27 N82-29456

Surface texturing of fluoropolymers [NASA-CASE-LEW-13029-1] c 27 N82-33521

Heat sealable, flame and abrasion resistant coated fabric [NASA-CASE-MSC-18382-2] c 27 N84-14324

Insulation bonding test system [NASA-CASE-MFS-25962-1] c 27 N85-20126

Cryogenic insulation strength and bond tester [NASA-CASE-MFS-25910-1] c 39 N86-20841

Method for forming hermetic seals [NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

Tool and process for miniature explosive joining of tubes [NASA-CASE-LAR-13662-1] c 37 N88-14359

Method of inserting predesigned disbond areas into composite laminates [NASA-CASE-LAR-13225-1] c 24 N89-14256

Method for maintaining precise suction strip porosities [NASA-CASE-LAR-13638-1] c 31 N90-19427

New core design for use with precision composite reflectors [NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

BONES

Ultrasonic bone densitometer [NASA-CASE-MFS-20994-1] c 35 N75-12271

Method and system for in vivo measurement of bone tissue using a two level energy source [NASA-CASE-MSC-14278-1] c 52 N77-14737

Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement [NASA-CASE-NPO-13764-1] c 27 N78-17215

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VLSI binary updown counter [NASA-CASE-NPO-17205-1-CU] c 60 N00-21525

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Folding boom assembly Patent [NASA-CASE-XGS-00938] c 32 N70-41367

Collapsible antenna boom and transmission line Patent [NASA-CASE-MFS-20099] c 07 N71-27191

Minimesh self-deploying boom mechanism [NASA-CASE-GSC-10586-1] c 15 N72-18477

Mechanically extendible telescoping boom [NASA-CASE-NPO-11118] c 03 N72-25021

Extended moment arm anti-spin device [NASA-CASE-LAR-12979-1] c 05 N85-21147

Space station erectable manipulator placement system [NASA-CASE-MSC-21096-1] c 18 N89-12621

BOOSTER RECOVERY

Recoverable rocket vehicle Patent [NASA-CASE-XMF-00389] c 31 N70-34176

Recoverable single stage spacecraft booster Patent [NASA-CASE-XMF-01973] c 31 N70-41588

Orbiter/launch system [NASA-CASE-LAR-12250-1] c 14 N81-26161

A two-stage earth-to-orbit transport with translating oblique wings for booster recovery [NASA-CASE-LAR-14156-1] c 16 N90-16781

BOOSTER ROCKET ENGINES

Segmented back-up bar Patent [NASA-CASE-XMF-00640] c 15 N70-39924

Recoverable single stage spacecraft booster Patent [NASA-CASE-XMF-01973] c 31 N70-41588

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank [NASA-CASE-MFS-25863-1] c 16 N84-27784

Earth-to-orbit vehicle providing a reusable orbital stage [NASA-CASE-LAR-13486-1] c 16 N90-22584

BOOTS (FOOTWEAR)

Walking boot assembly [NASA-CASE-ARC-11101-1] c 54 N78-17675

BOREHOLES

Method for machining holes in composite materials [NASA-CASE-MFS-28044-1] c 31 N87-25491

BORIDES

Method of making a light weight battery plaque [NASA-CASE-LEW-13349-1] c 26 N84-22734

Boron-containing organosilane polymers and ceramic materials thereof [NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

BORING MACHINES

Boring bar drive mechanism Patent [NASA-CASE-XLA-03661] c 15 N71-33516

Borehole geological assessment [NASA-CASE-NPO-14231-1] c 46 N80-10709

BORON

Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential of field effect device [NASA-CASE-GSC-11425-1] c 76 N74-20329

Boron-containing organosilane polymers and ceramic materials thereof [NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

BORON CARBIDES

Catalyst for growth of boron carbide single crystal whiskers [NASA-CASE-XHQ-03903] c 15 N69-21922

BORON CHLORIDES

Preparation of B-trichloroborazine [NASA-CASE-ARC-11643-1-SB] c 23 N87-23698

BORON COMPOUNDS

Boron-containing organosilane polymers and ceramic materials thereof [NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

BORON FLUORIDES

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge [NASA-CASE-ARC-11057-1] c 27 N78-31233

BOROSILICATE GLASS

Method for repair of thin glass coatings — on space shuttle orbiter tiles [NASA-CASE-KSC-11097-1] c 27 N82-33520

BOULES

Ingot slicing machine and method [NASA-CASE-NPO-15483-1] c 37 N85-21650

BOUNDARY LAYER CONTROL

Double hinged flap Patent [NASA-CASE-XLA-01290] c 02 N70-42016

Aerodynamic side-force alleviator means [NASA-CASE-LAR-12326-1] c 02 N81-14966

Active control of boundary layer transition and turbulence [NASA-CASE-LAR-13532-1] c 34 N86-26575

BOUNDARY LAYER FLOW

Combined riblet and labu drag reduction system [NASA-CASE-LAR-13296-1] c 02 N88-14071

BOUNDARY LAYER SEPARATION

Tertiary flow injection thrust vectoring system Patent [NASA-CASE-MFS-20831] c 28 N71-29153

Controlled separation combustor — airflow distribution in gas turbine engines [NASA-CASE-LEW-11593-1] c 20 N76-14190

Self stabilizing sonic inlet [NASA-CASE-LEW-11690-1] c 05 N79-24975

BOUNDARY LAYER TRANSITION

Detection of the transitional layer between laminar and turbulent flow areas on a wing surface — using an accelerometer to measure pressure levels during wind tunnel tests [NASA-CASE-LAR-12261-1] c 02 N80-20224

Active control of boundary layer transition and turbulence [NASA-CASE-LAR-13532-1] c 34 N86-26575

Crossflow vorticity sensor [NASA-CASE-LAR-13436-1-CU] c 02 N86-23758

Method for laminar boundary layer transition visualization in flight [NASA-CASE-LAR-13554-1] c 02 N89-12551

BOUNDARY LAYERS

Traversing probe Patent [NASA-CASE-XFR-02007] c 12 N71-24692

Apparatus for sensing temperature [NASA-CASE-XLE-05230] c 14 N72-27410

BOXES (CONTAINERS)

Storage container for electronic devices Patent [NASA-CASE-MFS-20075] c 09 N71-26133

Double window viewing chamber assembly [NASA-CASE-MFS-28057-1] c 09 N87-14355

BRACKETS

Electrical servo actuator bracket — fuel control valves on jet engines [NASA-CASE-FRC-11044-1] c 37 N81-33461

Airfoil flutter model suspension system [NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

Locking hinge [NASA-CASE-MSC-21056-1] c 18 N89-23827

BRAILLE

Braille reading system [NASA-CASE-LAR-13306-1] c 82 N87-29372

BRAKES
Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N86-29181
BRAKES (FOR ARRESTING MOTION)
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Sprag solenoid brake — development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
Moving body velocity arresting line — stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N90-26342
BRAKING
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
BRAZING
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07368] c 15 N71-20443
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Brazing alloy binder
[NASA-CASE-XMF-05668] c 26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
BREATHING APPARATUS
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Portable breathing system — a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
BRICKS
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
BRIDGMAN METHOD
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
BRIGHTNESS
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
BRIGHTNESS DISCRIMINATION
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
BRITTLENESS
Rock sampling — apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling — method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
BROADBAND
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24806
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-26013
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153
Multispectral variable magnification glancing incidence x ray telescope
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[NASA-CASE-LAR-11500-1] c 35 N76-24523
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[NASA-CASE-LAR-12230-1] c 35 N79-14347
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[NASA-CASE-NPO-15920-1] c 33 N85-21493
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[NASA-CASE-ARC-11504-1] c 09 N86-32447
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[NASA-CASE-ARC-11510-1] c 35 N86-32697
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[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
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[NASA-CASE-GSC-11434-1] c 34 N74-27859
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

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Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
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[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly — for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

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[NASA-CASE-XLA-01987] c 23 N71-23976
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[NASA-CASE-XMF-03844-1] c 14 N71-26474
Film feed camera having a detent means Patent
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[NASA-CASE-NPO-10417] c 16 N71-33410
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Real time moving scene holographic camera system
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[NASA-CASE-LAR-11213-1] c 35 N75-15014
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[NASA-CASE-MFS-22517-1] c 35 N76-18402

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[NASA-CASE-LAR-11932-1] c 05 N78-32086
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
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[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147

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[NASA-CASE-XKS-03495] c 14 N69-39785
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[NASA-CASE-XAC-04885] c 14 N71-23790
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[NASA-CASE-NPO-10607] c 09 N71-27232
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Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21266
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
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[NASA-CASE-XMF-00375] c 15 N70-34249
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[NASA-CASE-XGS-00381] c 09 N70-34819
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23869

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[NASA-CASE-XNP-09750] c 14 N69-39937
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[NASA-CASE-XMF-00517] c 03 N70-34157
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
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[NASA-CASE-XLE-01246] c 14 N71-10797
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Thermodielectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 09 N72-28762
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[NASA-CASE-ARC-10443-1] c 14 N73-20477
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[NASA-CASE-MSC-14339-1] c 05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11936-1] c 33 N76-15373
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24808
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

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[NASA-CASE-XNP-03972] c 15 N71-23048
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[NASA-CASE-XLA-09811] c 15 N71-27214
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27588

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Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

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Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
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[NASA-CASE-NPO-10173] c 03 N71-18698

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[NASA-CASE-MSC-16497-1] c 25 N82-12186
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-26205
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
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[NASA-CASE-LEW-14130-1] c 31 N86-32587
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946

CARBON ARCS

Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
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Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

CARBON DIOXIDE

Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

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Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
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[NASA-CASE-NPO-11945-1] c 36 N76-18427

CARBON DIOXIDE REMOVAL

Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
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[NASA-CASE-MSC-21629-1] c 54 N89-29027

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[NASA-CASE-ARC-11040-1] c 24 N79-16915
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[NASA-CASE-LEW-12119-1] c 37 N80-28711
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[NASA-CASE-NPO-14940-1] c 33 N83-31954
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[NASA-TM-76884] c 24 N85-25436
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[NASA-CASE-LEW-14698-1] c 24 N88-29888
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262

CARBON MONOXIDE

Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
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[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517

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Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13922-1] c 26 N85-35267
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[NASA-CASE-LAR-13190-1] c 24 N87-27742
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[NASA-CASE-LAR-13435-1] c 37 N88-23961
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[NASA-CASE-LAR-13761-1] c 34 N90-20323
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[NASA-CASE-LAR-13926-1] c 37 N90-22042
Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114

CARBONACEOUS MATERIALS

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[NASA-CASE-NPO-15924-1] c 25 N85-35253

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[NASA-CASE-MFS-10512] c 06 N73-30099
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33077

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[NASA-CASE-ARC-11261-1] c 24 N83-25799

CARBONYL COMPOUNDS

Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260

CARBORANE

Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

CARBOXYL GROUP

Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10598] c 06 N71-25829

CARBOXYLIC ACIDS

Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

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Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

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Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

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[NASA-CASE-XMS-02399] c 06 N71-22896
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

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Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13844-1] c 52 N76-29895

CARDIOTACHOMETERS

Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

CARDIOVASCULAR SYSTEM

G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13843-1] c 52 N76-29896
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-26388

CARGO

Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

CARRIER FREQUENCIES

Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

CARRIER LIFETIME

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35898
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

CARRIER WAVES

Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-25810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

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Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

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Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179

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Endless tape cartridge Patent
[NASA-CASE-XGS-00789] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

CASCADE CONTROL

Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10085-1] c 10 N71-27136
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

CASCADE FLOW

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117

Thrust reverser for a long duct fan engine — for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
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[NASA-CASE-MSC-18936-1] c 35 N83-29652

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Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

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[NASA-CASE-XGS-00886] c 03 N71-11053
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[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20806
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N86-24817

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Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

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Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Textured polymer surfaces by transfer casting — cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
A tough performance of simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26965

CASTINGS
Method of making an apertured casting — using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

CATALYSIS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

CATALYSTS
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00878] c 28 N70-41311
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides — flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20160
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517

CATALYTIC ACTIVITY
Diesel engine catalytic combustor system — aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

CATHETERIZATION
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

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Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
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[NASA-CASE-ERC-10458] c 09 N72-20206
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-252-8
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Very high intensity light source using a cathode ray tube — electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

CATHODES
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-28084
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11580] c 28 N73-24783
Storage battery comprising negative plates of a wedge shaped configuration — for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14106-1] c 33 N87-28832
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-18124
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[NASA-CASE-NPO-17640-1-CU] c 33 N90-17011
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041

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Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

CAVITATION FLOW
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

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Black body cavity radiometer Patent
[NASA-CASE-NPO-10910] c 14 N71-27323
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Method and apparatus for producing concentric hollow spheres — inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706

CAVITY RESONATORS
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N89-24323
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12258-1] c 07 N70-12616
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

CELESTIAL BODIES
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
Position determination systems — using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

CELESTIAL NAVIGATION
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

CELL ANODES
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581

CELL DIVISION
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25789

CELLS
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-30742

CELLS (BIOLOGY)
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method for separating biological cells — suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Horizontally rotated cell culture system
[NASA-CASE-MSC-21294-1] c 51 N89-13131
Bio-reactor cell culture process
[NASA-CASE-MSC-21299-1] c 51 N89-14666
Spiral vane bioreactor
[NASA-CASE-MSC-21381-1] c 51 N89-25557
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-28049-1-NP] c 25 N89-28803
Three-dimensional coculture process
[NASA-CASE-MSC-21580-1] c 51 N90-19852

CELLULOSE
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 26 N82-29370

CELLULOSE NITRATE
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

CENTERBODIES
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
CENTRAL PROCESSING UNITS
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
CENTRIFUGAL COMPRESSORS
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
CENTRIFUGAL FORCE
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N80-20236
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
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Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Separator Patent
[NASA-CASE-XLA-00410] c 15 N71-16079
Centrifugal lyophobic separator
[NASA-CASE-LAR-10184-1] c 34 N74-30606
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32629
CERAMIC BONDING
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Composite piston
[NASA-CASE-LAR-13435-1] c 27 N86-23981
CERAMIC COATINGS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-13359-1] c 27 N83-31855
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18629
CERAMIC HONEYCOMBS
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
CERAMIC MATRIX COMPOSITES
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-29656
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
CERAMIC NUCLEAR FUELS
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
CERAMICS
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02436] c 18 N71-22998
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method of coating through-holes Patent
[NASA-CASE-XMF-05699] c 15 N71-29032
Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Fully plasma sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Fiber reinforced ceramic material
[NASA-CASE-LEW-14382-2] c 27 N89-29538
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23568
CEREBROSPINAL FLUID
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
CERMETS
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13686-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
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Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
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Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34648
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-26421
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
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Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
CESIUM VAPOR
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
CHALCOGENIDES
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
CHAMBERS
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
CHANGE DETECTION
Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
CHANNEL FLOW
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17589
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
CHANNELS (DATA TRANSMISSION)
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
CHARACTER RECOGNITION
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
CHARACTERIZATION
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N89-28794
Universal nondestructive MM-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N90-17009
CHARGE COUPLED DEVICES
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17268
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
CHARGE DISTRIBUTION
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06029] c 09 N71-23189
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
CHARGE EFFICIENCY
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
CHARGE EXCHANGE
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
CHARGE TRANSFER
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N88-31727
CHARGE TRANSFER DEVICES
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N79-27402
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24418

CHARGED PARTICLES
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-18095
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

CHARGING
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020

CHARRING
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

CHASSIS
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33487
Articulated suspension system
[NASA-CASE-NPO-17364-1-CU] c 37 N90-17153

CHECKOUT
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

CHELATES
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23363

CHEMICAL ANALYSIS
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01987] c 06 N71-23527
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17086
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Chromato-fluorographic drug detector — device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 05 N74-26947
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Particle analyzing method and apparatus
[NASA-CASE-NPO-15282-1] c 35 N83-27184
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31983
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

CHEMICAL AUXILIARY POWER UNITS
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

CHEMICAL BONDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Perfluoroalkyl polyiazines containing pendant iododitluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14018
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11849-2-SB] c 27 N90-21177

CHEMICAL COMPOSITION
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Nitramine propellants — gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions — for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Low temperature cross linking polyimides
[NASA-CASE-LEW-12576-2] c 27 N83-29392
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Novel polyimide compositions based on 4,4'-isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

CHEMICAL COMPOUNDS
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

CHEMICAL ELEMENTS
Apparatus for remote handling of materials — mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

CHEMICAL ENGINEERING
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CHEMICAL EXPLOSIONS
Hypervelocity gun — using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

CHEMICAL INDICATORS
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

CHEMICAL MACHINING
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033

CHEMICAL PROPERTIES
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Thiophenyl ether disiloxane and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

CHEMICAL REACTIONS
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-09691] c 06 N71-11236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10733] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-06802] c 06 N71-11239
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03968] c 15 N71-21403
Process for preparation of diarylnitrosilanes Patent
[NASA-CASE-XMF-08409] c 06 N71-23230
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10788] c 06 N71-27254
Metal containing polymers from cyclic tetrameric phenylphosphonimidamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Epoxy-azirdine polymer product Patent
[NASA-CASE-NPO-10781] c 06 N71-28620
Process for preparation of high-molecular- weight polyarylsilylenes Patent
[NASA-CASE-XMF-09674] c 06 N71-28807
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-31808
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-05902] c 15 N72-11387

CHEMICAL TESTS
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-29535
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12912
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
Method for detecting pollutants — through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-33329
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14079
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Process for producing bis (an-methylammo) methylalane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11532-2] c 27 N85-34090
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23696
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28606
Method of dispensing reagent chemicals in space
[NASA-CASE-LAR-13807-1-CU] c 29 N88-29048
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

CHEMICAL REACTORS
Chemical vapor deposition reactor — providing uniform film thickness
[NASA-CASE-NPO-13660-1] c 26 N79-28253
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10404
Method of producing silicon — gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Thermal reactor — liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Apparatus and method to keep the walls of a free space reactor free from deposits of solid materials
[NASA-CASE-NPO-15881-1] c 37 N85-21652
Remotely controllable mixing system
[NASA-CASE-MFS-29153-1] c 31 N86-32589

CHEMICAL TESTS
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547

CHEMILUMINESCENCE

Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N86-30039

CHEMILUMINESCENCE

Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 61 N80-16714

CHEMISORPTION

Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N86-14223

CHEMOTHERAPY

Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

CHIPS (ELECTRONICS)

Head for high speed spinner having a vacuum chuck -- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17997-1-CU] c 33 N90-27040

CHIPS (MEMORY DEVICES)

VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

CHIRP SIGNALS

Method for shaping and aiming narrow beams -- sonar mapping and target identification
[NASA-CASE-NPO-14832-1] c 32 N82-18443

CHLORIDES

Thi 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13318-2] c 27 N87-14515
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041

CHLORINATION

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08013] c 14 N71-28933
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

CHLORINE

Fluidized bed desulfurization
[NASA-CASE-NPO-15824-1] c 26 N85-35253

CHLOROPRENE RESINS

Flexible fire retardant polyisocyanate modified neoprene foam -- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814

CHOKES

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

CHOKES (RESTRICTIONS)

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10842-1] c 07 N74-31270
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

CHOLESTEROL

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

CHROMATOGRAPHY

Chromato-fluorographic drug detector -- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10833-1] c 25 N74-26947
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

CHROMIUM

Selective coating for solar panels -- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34262
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14029-1] c 44 N86-19721

CHROMIUM ALLOYS

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

CHROMIUM COMPOUNDS

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

CHROMOSOMES

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

CINEMATOGRAPHY

High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

CIRCUIT BOARDS

Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12504
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32916
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Connector -- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

CIRCUIT BREAKERS

Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22726
Separation simulator Patent
[NASA-CASE-XKS-04831] c 10 N71-23663
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

CIRCUIT DIAGRAMS

Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27483
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02689] c 07 N71-11282
Difference circuit Patent
[NASA-CASE-XNP-06274] c 10 N71-13537
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Microcircuit negative buffer
[NASA-CASE-XLA-09643] c 15 N72-27485
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 39 N76-21390
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

CIRCUIT PROTECTION

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39697
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13331
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01589] c 09 N71-20705
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Electrical insulating layer process
[NASA-CASE-LEW-10469-1] c 15 N72-25447
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008

CIRCUIT RELIABILITY

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

CIRCUITS

Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-26958
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-26960
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-30129
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Controllable load insensitive power converters
[NASA-CASE-ERC-10258] c 09 N72-25252
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-26241
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14058-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-11424
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
High voltage power supply
[NASA-CASE-GSC-12818-1] c 32 N85-29147
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15896-1] c 33 N85-34333
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N86-29939
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-29818
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-25817

CIRCULAR CONES
Optical inspection apparatus Patent
[NASA-CASE-XMF-00482] c 14 N70-34298

CIRCULAR CYLINDERS
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

CIRCULAR POLARIZATION
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24586
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

CIRCULAR TUBES
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CIRCULATION CONTROL AIRFOILS
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

CIRCULATORS (PHASE SHIFT CIRCUITS)
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372

CIRCUMFERENCES
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706

CLADDING
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13960-1] c 24 N87-16613

CLAMPING CIRCUITS
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

CLAMPS
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17[illegible]
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Releasable clamping apparatus
[NASA-CASE-MFS-29192-1] c 37 N90-17154
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Power saw
[NASA-CASE-MSC-21469-1] c 37 N90-26340
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N90-26859
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N90-27261

CLAYS
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

CLEAN ROOMS
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-30137

CLEANERS
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-25849
Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

CLEANING
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

CLEAR AIR TURBULENCE
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-26437
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 09 N83-10040

CLEARANCES
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32396
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

CLEAVAGE
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

CLIMBING FLIGHT
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

CLINICAL MEDICINE
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10339] c 04 N72-33072
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

COAL
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28380

CLIPS
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28380
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28380

CLOCKS
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30604
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

CLOSED CIRCUIT TELEVISION
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12589-1] c 18 N76-14186

CLOSED CYCLES
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

CLOSED ECOLOGICAL SYSTEMS
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027

CLOSTRIDIUM
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

CLOSURES
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

CLOUD CHAMBERS
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

CLOUD COVER
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

CLOUDS (METEOROLOGY)
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862

CLUTCHES
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-29084
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

CLUTTER
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14036-1] c 32 N83-19568
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26748

CMOS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

COAL
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28870
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

COAL GASIFICATION

Coal desulfurization — using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33248
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
Fluidized bed desulfurization
[NASA-CASE-NPO-15824-1] c 25 N86-35253

COAL GASIFICATION

Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-18475
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744

COAL LIQUEFACTION

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

COAL UTILIZATION

Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

COATING

Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01588] c 09 N71-20705
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method of forming metal hydride films
[NASA-CASE-LEW-13063-1] c 37 N78-13436
Selective coating for solar panels — using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19589
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31253
Process for producing a well-adhered durable optical coating on an optical plastic substrate — abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32954
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

COATINGS

Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N79-14184
Edge coating of flat wires
[NASA-CASE-XMF-06757-1] c 31 N79-21027
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32178
Diamondlike flaks composites
[NASA-CASE-LEW-13837-1] c 24 N84-22690
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N86-21367
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13564-1] c 02 N89-12551
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20190
Method of inserting predesigned debond areas into composite laminates
[NASA-CASE-LAR-13235-1] c 24 N90-25197

COAXIAL CABLES

Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20069] c 07 N71-27191
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14489
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Refrigerated coaxial coupling — for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18295
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

COAXIAL PLASMA ACCELERATORS

Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

COBALT

Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COBALT ALLOYS

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15844
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

COBALT COMPOUNDS

Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455

COBALT OXIDES

High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

COCKPIT SIMULATORS

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

COCKPITS

Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CODERS

Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Method and apparatus for decoding competitive convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N78-31946
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17290-1-CU] c 17 N90-21061

CODING

Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-32749
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-30217
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-19239
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N89-28948
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N90-10310

COEFFICIENT OF FRICTION

Static coefficient test method and apparatus
[NASA-CASE-GSC-11580-1] c 35 N78-31489
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382

COENZYMES

Flavin coenzyme assay
[NASA-CASE-GSC-10980-1] c 06 N72-25149

COHERENT ELECTROMAGNETIC RADIATION

Folded traveling wave maser structure Patent
[NASA-CASE-XNP-06219] c 18 N71-15550
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 18 N71-15551
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-29065

COHERENT LIGHT

Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28904

COHERENT RADIATION

Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

COINCIDENCE CIRCUITS

Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC 16810-1] c 33 N76-16331

COLD CATHODES

Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327

COLD GAS

Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

COLD WELDING

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

COLD WORKING

Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26340

COLLAPSE

Collapsible pistons
[NASA-CASE-MSC-13799-1] c 11 N73-32152

COLLECTION

Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19811
Absorbent product to absorb fluids — for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29082
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Semi-active orbital debris sweeper
[NASA-CASE-MSC-21534-1] c 18 N90-29860

COLLIMATION

Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21061
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-29886
Method for shaping and aiming narrow beams — sonar mapping and target identification
[NASA-CASE-NPO-14832-1] c 32 N82-19443
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16859
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
Laser schlieren crystal monitor
[NASA-CASE-MFS-29060-1] c 76 N87-25862
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

COLLIMATORS

X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20548-2] c 14 N73-30389
Multiplate focusing collimator — for scanning small near radiation sources
[NASA-CASE-MFS-20830-1] c 35 N75-19816

Method for shaping and aiming narrow beams — sonar mapping and target identification
[NASA-CASE-NPO-14832-1] c 32 N82-19443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

COLLISION AVOIDANCE
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 08 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132

COLLISIONS
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359

COLLOIDAL GENERATORS
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

COLLOIDAL PROPELLANTS
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

COLLOIDS
The 2 deg/90 deg laboratory scattering photometer — particulate refractivity in hydrosols
[NASA-CASE-GSC-12068-1] c 74 N78-13874

COLOR
Nondestructive spot test-method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-19059
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13884-1] c 02 N89-12551

COLOR PHOTOGRAPHY
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

COLOR TELEVISION
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-29618
Color television system
[NASA-CASE-MSC-12149-1] c 07 N72-17109
Scan converting video tape recorder
[NASA-CASE-NPO-10198-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10198-2] c 35 N76-14091
System for producing chroma signals
[NASA-CASE-MSC-14583-1] c 74 N77-18893
Full color hybrid display for aircraft simulators — landing aids
[NASA-CASE-ARC-10903-1] c 09 N76-16083

COLOR VISION
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-18015

COLUMNS
Lightweight structural columns — space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258

COLUMNS (PROCESS ENGINEERING)
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-30836

COLUMNS (SUPPORTS)
Telescoping columns — parabolic antenna support
[NASA-CASE-LAR-12199-1] c 31 N81-27324

COMBINATORIAL ANALYSIS
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

COMBUSTION
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-18484
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13267-1] c 25 N84-32447

COMBUSTION CHAMBERS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36536
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41819
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04803] c 33 N71-21507
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11119-1] c 20 N74-32919
Controlled separation combustor — airflow distribution in gas turbine engines
[NASA-CASE-LEW-11580-1] c 20 N76-14190
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N79-10224
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N79-27357
Combustor — low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Heat exchanger — rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13398
General purpose rocket furnace
[NASA-CASE-MFS-23480-1] c 12 N79-26075
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Micronized coal burner facility
[NASA-CASE-LEW-13436-1] c 25 N84-16276
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
Combustor liner construction
[NASA-CASE-LEW-14056-1] c 07 N84-24577
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Diesel engine catalytic combustor system — aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Flow modifying device
[NASA-CASE-LEW-13582-2] c 07 N86-35195
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N89-28829
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13909-1] c 25 N90-11824
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771

COMBUSTION CONTROL
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819

COMBUSTION EFFICIENCY
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

COMBUSTION PHYSICS
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24794
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13629-1] c 37 N79-11405

COMBUSTION PRODUCTS
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-19922
Combustion products generating and metering device
[NASA-CASE-GSC-11066-1] c 14 N72-10375
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N79-19457
Coal desulfurization process
[NASA-CASE-NPO-13607-1] c 44 N79-31527
Combustor — low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13267-1] c 25 N84-32447
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13616-1] c 35 N90-22025

COMBUSTION STABILITY
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04803] c 33 N71-21507
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

COMET TAILS
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-26016

COMFORT
Ride quality meter
[NASA-CASE-LAR-12982-1] c 35 N84-12445

COMMAND AND CONTROL
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20269
Common data buffer system — communication with computational equipment utilized in spacecraft operations
[NASA-CASE-ASC-11048-1] c 62 N81-24779

COMMAND MODULES
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

COMMUNICATING
Communications link for computers
[NASA-CASE-NPO-11181] c 08 N72-25207

COMMUNICATION
Correlation function apparatus Patent
[NASA-CASE-XNP-00748] c 07 N71-21476
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146

COMMUNICATION CABLES
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15888
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14150-1] c 32 N80-15252
High acceleration cable deployment system
[NASA-CASE-ARC-11298-1] c 15 N82-24272
Rotatable electric cable connecting system
[NASA-CASE-GSC-12689-1] c 33 N86-20888

COMMUNICATION EQUIPMENT
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01398] c 07 N71-20814
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-15205
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10067-4] c 07 N73-20174
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-28854
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-29001

COMMUNICATION NETWORKS
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16869-1-CU] c 60 N90-21527

COMMUNICATION SATELLITES
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23309
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-26501
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N76-15323

COMMUTATION
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-30915
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14506-1] c 33 N81-18393

COMMUTATORS
Scanning aspect sensor employing an aperture disc and a commutator
[NASA-CASE-XGS-08286] c 14 N69-27432
Current steering commutator
[NASA-CASE-NPO-10743] c 09 N72-21199

COMPARATOR CIRCUITS
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
COMPARATORS
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
COMPATIBILITY
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
COMPENSATORS
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
COMPLEX COMPOUNDS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
COMPONENT RELIABILITY
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
COMPOSITE MATERIALS
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Flexible composite membrane Patent
[NASA-CASE-XNP-06837] c 18 N71-16210
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-26496
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N75-22309
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12061-1] c 28 N78-24365
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14657-1] c 27 N83-19900
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N89-14259
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
COMPOSITE PROPELLANTS
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
COMPOSITE STRUCTURES
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N89-26586
Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
COMPOSITION (PROPERTY)
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
COMPRESSED AIR
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
COMPRESSIBILITY
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11248
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
COMPRESSIBLE FLUIDS
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
COMPRESSING
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
COMPRESSION LOADS
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
COMPRESSION RATIO
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
COMPRESSION TESTS
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
COMPRESSIVE STRENGTH
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
COMPRESSOR BLADES
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
COMPRESSOR ROTORS
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
COMPRESSORS
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

COMPUTATION
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04766] c 08 N71-19437
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

COMPUTER ANIMATION
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

COMPUTER COMPONENTS
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

COMPUTER DESIGN
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

COMPUTER GRAPHICS
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

COMPUTER INFORMATION SECURITY
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

COMPUTER NETWORKS
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
Common data buffer system — communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608

COMPUTER PROGRAMMING
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Priority interrupt system — comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

COMPUTER PROGRAMS
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24833
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

COMPUTER STORAGE DEVICES
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

COMPUTER SYSTEMS DESIGN
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

COMPUTER TECHNIQUES
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764

COMPUTER VISION
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868

COMPUTERIZED SIMULATION
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21485-1] c 61 N90-16410
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

COMPUTERS
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

CONCAVITY
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

CONCENTRIC CYLINDERS
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

CONCENTRIC SPHERES
Method and apparatus for producing concentric hollow spheres — inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres — target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONDENSATES
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

CONDENSERS (LIQUEFIERS)
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

CONDUCTING FLUIDS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Internally supported flexible duct joint — device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTION ELECTRONS
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

CONDUCTIVE HEAT TRANSFER
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

CONDUCTIVITY
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

CONDUCTORS
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays — from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

CONES
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-25475

CONFIGURATION MANAGEMENT
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

CONFINEMENT
Observation window for a gas confining chamber
[NASA-CASE-NPO-10690] c 11 N73-12265

CONICAL BODIES

CONICAL BODIES
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Almond test body — for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
CONICAL SCANNING
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
CONICAL SHELLS
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
CONJUGATES
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
CONNECTORS
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system — insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21849
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
CONSCIOUSNESS
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
CONSISTENCY
Constant-output atomizer — inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
CONSOLES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
CONSTANTS
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
CONSTRAINTS
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25862
CONSTRUCTION MATERIALS
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13021
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
CONTACT POTENTIALS
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
CONTAINERLESS MELTS
Method of crystallization — in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-26087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
CONTAINERS
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
CONTAINMENT
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
CONTAMINANTS
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method anc apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
CONTAMINATION
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-26527
CONTINUOUS RADIATION
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Pseudo continuous wave instrument — ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
CONTINUOUS WAVE LASERS
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Continuous plasma laser — method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Stark effect spectrophone for continuous absorption spectra monitoring — a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Spectrophone stabilized laser with line canter offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
CONTINUOUS WAVE RADAR
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
CONTINUUM FLOW
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814
CONTOUR SENSORS
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
CONTOURS
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Surface conforming thermal/pressure seal — tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
CONTROL
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
CONTROL BOARDS
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
CONTROL DATA (COMPUTERS)
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
CONTROL EQUIPMENT
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Digital controller for a Baum folding machine — providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Flow control valve — for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Power factor control system for AC induction motors
[NASA-CASE-MFS-23290-1] c 33 N78-10376
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Control for nuclear thermionic power source
[NASA-CASE-NPC-13114-2] c 73 N78-28917
Illumination control apparatus for compensating sola light
[NASA-CASE-KSC-11010-1] c 74 N79-12867
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-26647
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26778
Means for controlling aerodynamically induced tw
[NASA-CASE-LAR-12175-1] c 05 N82-28276

Electronic system for high power load control — solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 18 N86-26352
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Semi-active orbital debris sweeper
[NASA-CASE-MSC-21534-1] c 18 N90-26880

CONTROL ROCKETS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

CONTROL RODS
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

CONTROL SIMULATION
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

CONTROL STABILITY
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Apparatus for damping operator induced oscillations of a controlled system — flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

CONTROL SURFACES
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Thermal barrier pressure seal — shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

CONTROL SYSTEMS DESIGN
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-26816
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-28967
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

CONTROL THEORY
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

CONTROL UNITS (COMPUTERS)
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

CONTROL VALVES
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Pressure control valve — inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Electrical servo actuator bracket — fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Slow opening valve — valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867

CONTROLLED ATMOSPHERES
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

CONTROLLERS
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Controller for computer control of brushless dc motors — automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

CONVECTION
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

CONVECTIVE FLOW
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVECTIVE HEAT TRANSFER
Thin film gauge — for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVERGENCE
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

CONVERGENT NOZZLES
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

CONVERGENT-DIVERGENT NOZZLES
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684

CONVERSION
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

CONVERTERS
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

CONVEYORS
System and method for refurbishing and processing parachutes — monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

CONVOLUTION INTEGRALS
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16482-1-CU] c 60 N88-24169

COOLANTS
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

COOLING
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 18 N72-12440
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Heating and cooling system — for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Heat pipe cooled probe
[NASA-CASE-LAR-12586-1] c 34 N85-21568
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415

COOLING SYSTEMS
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

COORDINATES

Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Light shield and cooling apparatus — high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Refrigerated coaxial coupling — for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Closed loop spray cooling apparatus — for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Heat exchanger — rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
Radiative cooler — spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

COORDINATES

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764

COPOLYMERIZATION

Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

COPOLYMERS

Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

COPPER

Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS

Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

COPPER CHLORIDES

Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N90-17011

COPPER COMPOUNDS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES

Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

CORDAGE

Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

CORE STORAGE

Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 06 N72-21198

CORES

Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

CORK (MATERIALS)

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA CASE-MFS-23626-1] c 24 N80-26388

CORRECTION

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N90-26341

CORRELATION

Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CORRELATION DETECTION

Correlation type phase detector — with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

CORRELATORS

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29306
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

CORROSION

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

CORROSION PREVENTION

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions — by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Method of protecting a surface with a silicon-slurry/aluminide coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12860-1] c 26 N86-32550
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

CORROSION RESISTANCE

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Corrosion resistant thermal barrier coating — protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Carbon granule probe microphone for leak detection — recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
CORRUGATED PLATES
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
CORRUGATING
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
COSINE SERIES
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
COSMIC DUST
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
COST ANALYSIS
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
COST EFFECTIVENESS
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
COUCHES
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
COULOMETERS
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
COUNTERBALANCES
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
COUNTERS
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
COUNTING CIRCUITS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Magnetic counter Patent
[NASA-CASE-XNP-06836] c 09 N71-12515
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
COUPLING
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26566
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-26319
Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
Optical pressure sealing coupling apparatus
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[NASA-CASE-MFS-21660-1] c 35 N74-21017
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[NASA-CASE-ARC-10364-3] c 33 N75-19520
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[NASA-CASE-XMS-07846-1] c 09 N69-21927
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[NASA-CASE-XLA-02854] c 15 N69-27490
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[NASA-CASE-KSC-11069-1] c 52 N79-26772
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[NASA-CASE-ARC-11114-1] c 51 N81-14605
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[NASA-CASE-MSC-18742-1] c 37 N82-26673
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[NASA-CASE-MSC-18969-1] c 18 N84-22605
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[NASA-CASE-MSC-20319-1] c 37 N85-21649
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[NASA-CASE-MSC-20475-1] c 37 N87-17037
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[NASA-CASE-LAR-12968-1] c 60 N86-21154
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Ultrasonic method and apparatus for determining crack opening load
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CRACK PROPAGATION
Fatigue testing apparatus
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[NASA-CASE-NPO-10271] c 17 N71-16393
TV fatigue crack monitoring system
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Method of repairing hidden leaks in tubes
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[NASA-CASE-MFS-16609-3] c 03 N76-32140
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[NASA-CASE-XLE-02082] c 17 N71-16026
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[NASA-CASE-LEW-14262-1] c 26 N87-28647
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Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
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Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
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Stable superconducting magnet — high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
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[NASA-CASE-NPO-13283] c 38 N78-17395
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
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[NASA-CASE-LAR-12326-1] c 02 N81-14968
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[NASA-CASE-LAR-13019-1] c 07 N85-35194
Crosswise vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
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[NASA-CASE-LAR-12196-1] c 33 N81-26358
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Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
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Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
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[NASA-CASE-LEW-12053-1] c 27 N78-15276
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
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[NASA-CASE-LEW-13135-2] c 27 N81-24257
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
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[NASA-CASE-LEW-13504-1] c 25 N83-13186
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[NASA-CASE-NPO-14857-1] c 27 N83-19900
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[NASA-CASE-LEW-12876-2] c 27 N83-29392
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[NASA-CASE-NPO-14987-1] c 24 N83-33950
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
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[NASA-CASE-ARC-11402-1] c 27 N84-22744
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
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[NASA-CASE-LEW-13770-5] c 27 N85-21352
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[NASA-CASE-LEW-13770-2] c 25 N85-28982
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
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[NASA-CASE-LAR-13450-1] c 27 N87-29657
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[NASA-CASE-NPO-14124-1] c 46 N80-14603

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[NASA-CASE-NPO-14253-1] c 32 N80-32605
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[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Multicomponent gas sorption Joule-Thomson refrigerator
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[NASA-CASE-NPO-13303-1] c 20 N75-24837
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
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Multistation refrigeration system
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[NASA-CASE-KSC-10622-1] c 31 N72-21893
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Low heat leak connector for cryogenic system
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[NASA-CASE-KSC-10615] c 15 N73-12486
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Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323

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Superconducting alternator
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[NASA-CASE-LEW-12081-2] c 28 N80-20402
CRYSTAL DEFECTS
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
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[NASA-CASE-NPO-14298-1] c 76 N80-32244
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[NASA-CASE-MFS-25242-1] c 35 N83-29650
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[NASA-CASE-NPO-15772-1] c 76 N85-29800
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[NASA-CASE-NPO-15813-1] c 76 N85-30922
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[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
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[NASA-CASE-NPO-15813-2] c 76 N87-15882
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
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[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
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Method of crystallization — in gravity-free environments
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[NASA-CASE-NPO-15800-2] c 76 N87-23286
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Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Method and apparatus for slicing crystals
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Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
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[NASA-CASE-MFS-25786-2] c 76 N90-20696
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[NASA-CASE-MSC-14836-1] c 52 N82-11770
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[NASA-CASE-LAR-11074-1] c 51 N75-13502
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[NASA-CASE-LAR-11354-1] c 35 N75-27330
Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
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[NASA-CASE-LAR-12520-1] c 51 N81-28898
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[NASA-CASE-NPO-15213-1] c 51 N83-17045
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[NASA-CASE-NPO-16203-1] c 23 N85-35227
Horizontally rotated cell culture system
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[NASA-CASE-MFS-28370-1] c 35 N89-28733
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[NASA-CASE-MSC-21560-1] c 51 N90-18852
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Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16878
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Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
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[NASA-CASE-ARC-11170-1] c 27 N79-11215
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[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
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[NASA-CASE-LEW-13770-2] c 25 N85-28982
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[NASA-CASE-ARC-11424-1] c 27 N85-34281
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[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
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[NASA-CASE-LAR-12931-2] c 27 N86-21675
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Method of controlling a resin curing process — for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Noninfrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

CURRENT AMPLIFIERS

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

CURRENT AMPLIFIERS

Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474

Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

CURRENT DENSITY

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500

Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

CURRENT DISTRIBUTION

Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470

Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661

Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724

Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

CURRENT REGULATORS

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24316

Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991

Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316

Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800

Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212

Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330

Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

CURVATURE

Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488

Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

CURVE FITTING

Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578

CURVED PANELS

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273

Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N76-27423

CUSHIONS

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

CUTTERS

Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798

Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

CUTTING

Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Power saw
[NASA-CASE-MSC-21469-1] c 37 N90-26340

New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

CYANATES

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

CYCLES

Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469

Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167

CYCLIC ACCELERATORS

Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458

CYCLIC COMPOUNDS

Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

CYCLIC HYDROCARBONS

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

CYCLIC LOADS

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877

Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

CYCLOTRON RADIATION

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

CYCLOTRON RESONANCE

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

CYCLOTRON RESONANCE DEVICES

Miniature cyclotron resonance ion source using sm permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-2710

Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-3195

CYLINDRICAL ANTENNAS

Variable beamwidth antenna --- with multiple beam variable feed system
[NASA-CASE-GSC-11882-1] c 32 N76-1829

CYLINDRICAL BODIES

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-2000

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-1496

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-1436

Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-2395

CYLINDRICAL CHAMBERS

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-1909

CYLINDRICAL SHELLS

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-2079

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Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-1475

CYTOLOGY

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-2555

CZOCHRALSKI METHOD

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-3010

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DAMAGE

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-1317

Semi-active orbital debris sweeper
[NASA-CASE-MSC-21534-1] c 18 N90-2686

DAMPERS (VALVES)

Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-3349

DAMPING

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-3429

Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-3899

Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-2170

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-2469

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-2551

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-2622

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-3491

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-3030

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-2078

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-2884

DATA ACQUISITION

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-4012

Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-1609

Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-2654

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-2725

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-1585

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-1072

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N88-24662

DATA COLLECTION PLATFORMS
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

DATA COMPRESSION
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Gated comp.essor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

DATA CONVERTERS
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-39907
Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DATA CORRELATION
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

DATA LINKS
Multichannel telem try system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

DATA MANAGEMENT
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

DATA PROCESSING
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03823] c 09 N73-28084
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

DATA PROCESSING EQUIPMENT
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Rate augmentau digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-26492
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

DATA PROCESSING TERMINALS
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N88-24662

DATA RECORDERS
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

DATA RETRIEVAL
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-28195

DATA SAMPLING
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

DATA SMOOTHING
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N90-27384

DATA STRUCTURES
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863

DATA SYSTEMS
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

DATA TRANSFER (COMPUTERS)
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

DATA TRANSMISSION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

DAWSONITE
Synthesis of dawsonites — for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

DEBRIS
Counter pumping debris excluder and separator — gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

DECAY RATES
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269

DECELERATION
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

DECIMALS
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

DECISION MAKING
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

DECODERS
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24850
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

DECODING
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

DECOMMUTATORS
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DECONTAMINATION
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Plasma cleaning device — designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

DEEP SPACE NETWORK
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

DEFECTS
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

DEFLECTION
Bipropellant injector
[NASA-CASE-XNP-09481] c 28 N72-23809
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

DEFLECTORS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Exhaust flow deflector — for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

DEFOCUSING
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

DEFORMATION
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deformable bearing seal
[NASA-CASE-LEW-12527-1] c 37 N77-32500

DEGASSING
Degassifying and mixing apparatus for liquids — potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

DEGREES OF FREEDOM
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Kinesthetic control simulator — for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

DEHUMIDIFICATION
Condenser - Seperator
[NASA-CASE-XLA-06645] c 15 N69-21465

DEHYDRATED FOOD
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

DEHYDRATION
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474

DEICERS
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

DEIONIZATION
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

DELAMINATING
Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N89-28586

DELAY CIRCUITS
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

DELAY LINES
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

DELTA MODULATION
Multifunction audio digitizer — producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885

DELTA WINGS
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

DEMAGNETIZATION
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

DEMODULATION
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17626-1-CU] c 32 N89-28684
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

DEMODULATORS
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Full wave modulator-demodulator amplifier apparatus — for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DENDRITIC CRYSTALS
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

DENSIFICATION
Densification of porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

DENSITOMETERS
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36818
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

DENSITY (MASS/VOLUME)
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454

Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

DENSITY DISTRIBUTION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector — for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

DENSITY MEASUREMENT
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018

DENTISTRY
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

DEOXIDIZING
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

DEOXYGENATION
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

DEPLOYMENT
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

DEPOSITION
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14060-1] c 31 N85-20153
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

DEPOSITS
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

DEPTH
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

DEPTH MEASUREMENT
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DESCENT
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

DESIGN ANALYSIS
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

DESORPTION
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

DESTRUCTIVE TESTS
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

DESULFURIZING
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098

DETECTION
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Photoelectric detection system — manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

DETECTORS
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05908] c 31 N71-16221
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Multiple pass remaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

DETERGENTS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

DETONATION
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

DETONATION WAVES
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

DEUTERIUM
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

DEW POINT
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

DIAGNOSIS
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408

DIAGRAMS
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

DIALYSIS
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14887

DIAMETERS
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

DIAMINES
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

DIAMONDS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

DIAPHRAGMS (MECHANICS)
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981

DIATOMIC GASES
Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

DICHROISM
Dichroic plate — as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

DICKE RADIOMETERS
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

DIDYMIUM
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

DIELECTRIC PROPERTIES
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

DIELECTRICS
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Electrostatic measurement system — for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20262
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Aromatic polymides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

DIELS-ALDER REACTIONS
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118

DIENES
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

DIES
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector — ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867

DIESEL ENGINES
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Diesel engine catalytic combustor system — aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

DIESEL FUELS
Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098

DIETS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

DIFFERENCES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

DIFFERENTIAL AMPLIFIERS
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Multi-channel temperature measurement amplification system — solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

DIFFERENTIAL INTERFEROMETRY
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

DIFFERENTIAL PRESSURE
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
System for use in conducting wake investigation for a wing in flight — differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-29300

DIFFERENTIATION (BIOLOGY)
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852

DIFFERENTIATORS
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

DIFFRACTION
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

DIFFRACTION PATTERNS
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

DIFFRACTOMETERS
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

DIFFUSE RADIATION
Transmitting and reflecting diffuser — using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

DIFFUSERS
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

DIFFUSION
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser — for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436

DIFFUSION LENGTH
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

DIFFUSION PUMPS
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

DIFFUSION WELDING
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

DIFFUSIVITY
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

DIGITAL COMMAND SYSTEMS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 06 N71-29034

DIGITAL COMPUTERS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24850
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

DIGITAL DATA

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DIGITAL FILTERS

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Filtering device — removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684

DIGITAL INTEGRATORS

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

DIGITAL RADAR SYSTEMS

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

DIGITAL SPACECRAFT TELEVISION

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

DIGITAL SYSTEMS

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Full binary adder Patent
[NASA-CASE-XGS-00589] c 08 N70-34787
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01456] c 10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03823] c 09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Digital controller for a Baum folding machine — providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Automatic character skew and spacing checking network — of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Memory-based frame synchronizer — for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

DIGITAL TECHNIQUES

Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

DIGITAL TO ANALOG CONVERTERS

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

DIGITAL TRANSDUCERS

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES

Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

DILUTION

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

DIMENSIONAL MEASUREMENT

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

DIMENSIONS

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Fast response low power drain logic circuits
[NASA-CASE-GSC-10678-1] c 10 N72-22236
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Thermal compensator for closed-cycle helium refrigerator — assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

DIPHENYL COMPOUNDS

Poly(carbonate-imide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Amine terminated biaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

DIPOLE ANTENNAS

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

DIRECT CURRENT

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19416

DIRECT LIFT CONTROLS

Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-26886
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Bio-isolated dc operational amplifier — for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Load insensitive electrical device — power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10336
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Controller for computer control of brushless dc motors — automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

DIRECT LIFT CONTROLS

Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106

DIRECT POWER GENERATORS

Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Load insensitive electrical device — power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

DIRECTIONAL ANTENNAS

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-38907
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Variable beamwidth antenna — with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Suspension system for a wheel rolling on a flat track — bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

DIRECTIONAL CONTROL

Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

DIRECTIONAL SOLIDIFICATION (CRYSTALS)

Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N90-15227

DIRECTIONAL STABILITY

Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34180
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

DIRECTIVITY

Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

DISCONNECT DEVICES

Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14483
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Slide release mechanism — for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21364-1] c 37 N88-24969

DISCONTINUITY

Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

DISCRIMINATORS

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18892
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

DISKS

Hybrid butterfly valve
[NASA-CASE-SSC-00004] c 37 N90-15443

DISPENSERS

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19486
Method of dispensing reagent chemicals in space
[NASA-CASE-LAR-13307-1-CU] c 29 N88-29048

DISPERSING

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

DISPERSIONS

Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573

DISPLACEMENT

Bimetallic fluid displacement apparatus — for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954

DISPLACEMENT MEASUREMENT

Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09348] c 15 N71-28740
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

DISPLAY DEVICES

Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Recorder/processor apparatus — for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Particle parameter analyzing system — x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Full color hybrid display for aircraft simulators — landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Chromatically corrected virtual image visual display — reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-26831
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

DISSIPATION
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10691-1] c 10 N71-26626
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

DISSOCIATION
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

DISSOLVING
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

DISTANCE MEASURING EQUIPMENT
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DISTILLATION EQUIPMENT
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

DISTRIBUTED AMPLIFIERS
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

DISTRIBUTED PROCESSING
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
A method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N89-24084
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29076
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

DISTRIBUTION (PROPERTY)
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

DISTRIBUTORS
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

DIVERTERS
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

DIVIDERS
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

DOCUMENT STORAGE
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

DOMES (STRUCTURAL FORMS)
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

DOORS
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

DOPES
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

DOPPLER EFFECT
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Doppler shift system — system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379

DOPPLER RADAR
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

DOSIMETERS
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

DOWNLINKING
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17260-1-CU] c 17 N90-21061

DRAG CHUTES
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Lightweight, variable solidity knitted parachute fabric — for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147

DRAG MEASUREMENT
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
System for use in conducting wake investigation for a wing in flight — differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

DRAG REDUCTION
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079

DRIFT (INSTRUMENTATION)
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

DRILL BITS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Hole cutter — drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186

DRILLING
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Method for machining holes in composite materials
[NASA-CASE-MFS-26044-1] c 31 N87-25491
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DRILLS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

DRIVES
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

DROP TOWERS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

DROPS (LIQUIDS)
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-26206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-26182-1] c 76 N90-24169

DRUGS
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-26234-1] c 52 N90-20616

DRY HEAT
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

DRYING
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

DRYING APPARATUS
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
DUCTED FANS
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
DUCTILITY
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
DUCTS
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
DURABILITY
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
DUST COLLECTORS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
DYE LASERS
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Laser head for simultaneous optical pumping of several dye lasers — with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
DYES
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
DYNAMIC CHARACTERISTICS
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
DYNAMIC CONTROL
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16389
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
DYNAMIC LOADS
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22678
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N86-30160
DYNAMIC MODELS
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28646
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110
DYNAMIC MODULUS OF ELASTICITY
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
DYNAMIC RESPONSE
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
DYNAMIC STRUCTURAL ANALYSIS
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
DYNAMIC TESTS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
DYNAMICAL SYSTEMS
Method of forming dynamic membrane on stainless steel support
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Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
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Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
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E

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Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
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Ablation sensor Patent
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[NASA-CASE-XGS-01593] c 03 N70-35408
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High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
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[NASA-CASE-NPO-14221-1] c 37 N81-25370
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[NASA-CASE-NPO-14372-1] c 35 N80-29635
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Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
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Miniature implantable ultrasonic echoenometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
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Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
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Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
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Generation of animation sequences of three dimensional models
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[NASA-CASE-XGS-04047-2] c 03 N72-11062
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[NASA-CASE-GSC-11909] c 32 N74-20863
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Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Fluid sample collection and distribution system — qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
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[NASA-CASE-LAR-12624-1] c 01 N83-35992
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N89-11724
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[NASA-CASE-XMF-04132] c 15 N69-27502
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Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
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Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20489
ELASTIC BODIES
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
ELASTIC DEFORMATION
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
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Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
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Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
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[NASA-CASE-NPO-10767-1] c 06 N73-33076
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
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Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
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Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Process for spinning flame retardant elastomeric compositions — fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers — heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262

Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-26240
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

ELBOW (ANATOMY)

Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

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Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980

ELECTRIC AUTOMOBILES

Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

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Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N90-17011
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041

ELECTRIC BRIDGES

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

ELECTRIC CELLS

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

ELECTRIC CHARGE

Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

ELECTRIC CHOPPERS

Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

ELECTRIC COILS

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

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Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Flexible conductive diec electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

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Connector - Electrical
[NASA-CASE-XLA-01268] c 09 N69-21470
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

ELECTRIC CONTACTS

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

ELECTRIC CONTROL

Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

ELECTRIC CURRENT

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10606
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354

Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Method and apparatus for limiting field emission current
[NASA-CASE-ERC 10015-2] c 10 N72-27246
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-26080-1] c 33 N87-21233
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

ELECTRIC DISCHARGES

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18266
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
Method and apparatus for determining time, direction and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132

ELECTRIC ENERGY STORAGE

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

ELECTRIC EQUIPMENT

Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07786] c 09 N71-29139
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140

ELECTRIC EQUIPMENT TESTS

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

ELECTRIC FIELD STRENGTH

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

ELECTRIC FIELDS

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

ELECTRIC FILTERS

Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24906
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

ELECTRIC FURNACES

High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

ELECTRIC FUSES

Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

ELECTRIC GENERATORS

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744

ELECTRIC IGNITION

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

ELECTRIC MOTOR VEHICLES

Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15103-1] c 44 N82-26776

ELECTRIC MOTORS

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Electronic motor control system Patent
[NASA-CASE-XMF 01129] c 09 N70-38712

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24895
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-26886
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Controller for computer control of brushless dc motors — automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Linear magnetic motor/generator — to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

ELECTRIC NETWORKS

Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

ELECTRIC POTENTIAL

Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Load-insensitive electrical device
[NASA-CASE-XER-11048] c 09 N72-22203
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 08 N72-33204
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-26849
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
High voltage power supply
[NASA CASE-GSC-12818-1] c 33 N85-29147
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N90-15442
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13485-1] c 27 N90-23544
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

ELECTRIC POWER

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
Power factor control system for AC induction motors
[NASA-CASE-MFS-23260-1] c 33 N78-10376
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Electrical power generating system — for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

ELECTRIC POWER PLANTS

Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23015

ELECTRIC POWER SUPPLIES

Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Inherent redundacy electric heater
[NASA-CASE-MFS-21482-1] c 33 N74-14935
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862

ELECTRIC POWER TRANSMISSION

Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

ELECTRIC PROPULSION

Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ELECTRIC PULSES

Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Phonocardiograph tranaducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22903
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
Active lamp pulse driver circuit — optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

ELECTRIC RELAYS

Protective circuit of the spark gap type
[NASA-CASE-XAC-06981] c 09 N69-39897
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

ELECTRIC ROCKET ENGINES

Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

ELECTRIC SPARKS

Method and device for detection of a substance — determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

ELECTRIC STIMULI

Tread drum for animals — having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ELECTRIC SWITCHES

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19810
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08798] c 10 N71-27272
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13416
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Automatic thermal switch — spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-29356
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

ELECTRIC TERMINALS

Electrical connector pin with wiping action
[NASA-CASE-XMF-04239] c 09 N69-39734
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Device for configuring multiple leads — method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

ELECTRIC WELDING
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
ELECTRIC WIRE
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Resistance soldering apparatus
[NASA-CASE-GSC-10813] c 15 N72-22491
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Means for accommodating large overstrain in lead wires — by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Device for configuring multiple leads — method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
High current electrical lead — for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
ELECTRICAL ENGINEERING
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
ELECTRICAL FAULTS
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
ELECTRICAL IMPEDANCE
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Signal conditioning circuit apparatus — with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
ELECTRICAL INSULATION
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17626
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Bio-isolated dc operational amplifier — for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Stored charge transistor
[NASA-CASE-NPO-11158-2] c 33 N75-31331
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
ELECTRICAL MEASUREMENT
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Four-terminal electrical testing device — initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
ELECTRICAL PROPERTIES
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Storage battery comprising negative plates of a wedge shaped configuration — for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Thermocouple tape — developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Modification of the electrical and optical properties of polymers — ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
ELECTRICAL RESISTANCE
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Four-terminal electrical testing device — initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
ELECTRICAL RESISTIVITY
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
Electrically conductive fluorocarbon polymer
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Method and device for detection of a substance — determining carbon fiber release in fire situations
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[NAS 1.71:NPO-15494-2] c 35 N85-34373
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[NASA-CASE-MFS-26281-1] c 09 N90-23415
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[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
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[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
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Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
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[NASA-CASE-LEW-14037-1] c 20 N87-16875
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[NASA-CASE-NPO-11106] c 14 N70-34697
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[NASA-CASE-XMF-00908] c 14 N70-40238
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Material suspension within an acoustically excited resonant chamber — at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
CDS solid state phase insensitive ultrasonic transducer — annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
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[NASA-CASE-XKS-10804] c 05 N71-24606
ELECTROCARDIOGRAPHY
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[NASA-CASE-MFS-20418] c 14 N73-24473
Insulated electrocardiographic electrodes — without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716

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[NASA-CASE-HQN-10537-1] c 06 N72-10138
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
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[NASA-CASE-LEW-13246-1] c 44 N83-27344

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[NASA-CASE-XGS-03865] c 14 N69-21363
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[NASA-CASE-XGS-01419] c 03 N70-41864
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[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
Battery testing device — for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
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[NASA-CASE-LEW-12513-1] c 25 N79-22235
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[NASA-CASE-LEW-13150-1] c 44 N79-26474
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
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[NASA-CASE-LAR-12893-1] c 76 N85-30923
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[NASA-CASE-LEW-14127-1] c 33 N86-20680

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[NASA-CASE-XNP-08835-1] c 37 N80-14395

ELECTROCHEMICAL OXIDATION
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[NASA-CASE-LEW-12513-1] c 25 N79-22235
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[NASA-CASE-XMS-02872] c 05 N69-21925
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[NASA-CASE-LAR-11922-1] c 25 N79-24073
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[NASA-CASE-NPO-17604-1-CU] c 33 N80-16124
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[NASA-CASE-NPO-17809-1-CU] c 33 N80-27041

ELECTRODE FILM BARRIERS
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[NASA-CASE-LEW-12358-1] c 44 N79-17313

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[NASA-CASE-MFS-29491-1] c 31 N89-23738

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[NASA-CASE-XNP-01959] c 26 N71-23043
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Electrophoretic sample insertion — device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
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[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method and device for the detection of phenol and related compounds — in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

ELECTRODES
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Flexible conductive diec electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
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[NASA-CASE-XMS-04213-1] c 09 N71-26002
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32686
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
High powered arc electrodes — producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Method of making porous conductive supports for electrodes — by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Insulated electrocardiographic electrodes — without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
Toroidal cell and battery — storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21288
Multistage depressed collector for dual mode operation — for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
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[NASA-CASE-LEW-13349-1] c 26 N84-22734
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26166

ELECTRODIALYSIS
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

ELECTROFORMING
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

ELECTROHYDRAULIC FORMING
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

ELECTROHYDRODYNAMICS
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

ELECTROKINETICS
Zeta potential flowmeter Patent
[NASA-CASE-XNP-08509] c 14 N71-23226

ELECTROLUMINESCENCE
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831

ELECTROLYSIS
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391

ELECTROLYTES
Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

ELECTROLYTIC CELLS
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252

Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

ELECTROMAGNETIC ABSORPTION

Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Electromagnetic radiation energy errangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

ELECTROMAGNETIC FIELDS

Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

ELECTROMAGNETIC HAMMERS

Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

ELECTROMAGNETIC INTERFERENCE

Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-29006
Method and apparatus for reducing speckle
[NASA-CASE-LAR-13771-1] c 36 N89-14428

ELECTROMAGNETIC MEASUREMENT

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTROMAGNETIC NOISE

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21386

ELECTROMAGNETIC PROPERTIES

Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

ELECTROMAGNETIC PROPULSION

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

ELECTROMAGNETIC PULSES

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

ELECTROMAGNETIC PUMPS

Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

ELECTROMAGNETIC RADIATION

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00693] c 07 N70-40063
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-26980
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

ELECTROMAGNETIC SHIELDING

Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTROMAGNETIC WAVE FILTERS

Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

ELECTROMAGNETIC WAVE TRANSMISSION

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTROMAGNETISM

Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

ELECTROMAGNETS

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

ELECTROMECHANICAL DEVICES

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00066] c 09 N70-33182
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26835
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-26833

ELECTROMETERS

Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

ELECTROMIGRATION

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

ELECTROMOTIVE FORCES

Heat activated cell Patent
[NASA-CASE-LEW-11350] c 03 N71-28579
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

ELECTROMYOGRAPHY

Method and apparatus for applying a mechanical force to surface
[NASA-CASE-LAR-14009-1] c 37 N90-27115

ELECTRON ATTACHMENT

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-26795

ELECTRON BEAM WELDING

Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

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[NASA-CASE-XGS-01451] c 09 N71-10677
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
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[NASA-CASE-XMF-10289] c 14 N71-23699
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-08617] c 09 N71-24843
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[NASA-CASE-LAR-10728-1] c 14 N73-12445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21650
Very high intensity light source using a cathode ray tube --- electron beams
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Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
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[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

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Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39669
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23180

Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27899
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-29087-1] c 35 N87-23944

ELECTRON CAPTURE
Multistage depressed collector for dual mode operation — for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

ELECTRON DISTRIBUTION
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[NASA-CASE-ARC-10598-1] c 75 N74-30156

ELECTRON EMISSION
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

ELECTRON ENERGY
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ELECTRON FLUX DENSITY
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

ELECTRON GUNS
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[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

ELECTRON IRRADIATION
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

ELECTRON MICROSCOPES
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON MICROSCOPY
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRON OSCILLATIONS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22695

ELECTRON PHOTON CASCADES
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

ELECTRON PLASMA
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[NASA-CASE-XLA-00147] c 25 N70-34661

ELECTRON SCATTERING
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ELECTRON SOURCES
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[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON TRANSFER
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487

ELECTRON TRANSITIONS
Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

ELECTRON TUBES
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ion sputter textured graphite — anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

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Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

ELECTRONIC CONTROL
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Electronic system for high power load control — solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
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[NASA-CASE-NPO-15553-1] c 33 N85-29142
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

ELECTRONIC EQUIPMENT
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Static inverter Patent
[NASA-CASE-XGS-05269] c 09 N71-19470
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
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[NASA-CASE-XNP-02792] c 14 N71-28958
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14426
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10265] c 10 N73-16206
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

ELECTRONIC EQUIPMENT TESTS
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-29991
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

ELECTRONIC FILTERS
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

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Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Module failure isolation circuit for paralleled inverters — preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14418-1] c 44 N81-14389
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[NASA-CASE-NPO-14152-1] c 60 N81-15706

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Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
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[NASA-CASE-LEW-10364-1] c 09 N71-13522
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Frangible electrochemical cell
[NASA-CASE-XGS-1[illegible]10] c 03 N72-15[illegible]
Hermetically sealed semiconductor
[NASA-CASE-GSC-10701-1] c 15 N73-14469
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
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[NASA-CASE-FRC-11042-1] c 60 N82-24839
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

ELECTRONIC RECORDING SYSTEMS
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[NASA-CASE-NPO-10185] c 10 N71-25339

ELECTRONIC TRANSDUCERS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
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[NASA-CASE-GSC-12219-1] c 35 N80-18359

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[NASA-CASE-ARC-11361-1] c 35 N84-22934

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Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472

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Electrophoretic sample insertion — device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Method for separating biological cells — suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-28049-1-NP] c 25 N89-28603

ELECTROPHOTOMETERS
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

ELECTROPHYSIOLOGY
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

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Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10820-1] c 17 N73-24569
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Method of forming oxide coatings — for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29386

ELECTROSTATIC CHARGE
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic measurement system — for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-16477
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21386-1] c 54 N90-25498

ELECTROSTATIC ENGINES
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00378] c 28 N70-37245
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02068] c 28 N71-15661
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ELECTROSTATIC GENERATORS
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

ELECTROSTATIC PRECIPITATORS
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Small conductive particle sensor — microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

ELECTROSTATIC PROBES
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

ELECTROSTATIC PROPULSION
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ELECTROSTATIC SHIELDING
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

ELECTROSTATICS
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N90-10310
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952

ELECTROTHERMAL ENGINES
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875

ELEVATION
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

ELEVATORS (LIFTS)
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453

ELEVONS
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

ELLIPSES
Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

ELLIPSOMETERS
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

ELONGATION
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262

ELUTION
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

EMBEDDING
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

EMBRITTLEMENT
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

EMERGENCIES
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N89-11724

EMERGENCY BREATHING TECHNIQUES
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

EMERGENCY LIFE SUSTAINING SYSTEMS
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755

EMERGENCY LOCATOR TRANSMITTERS
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

EMISSION SPECTRA
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

EMITTANCE
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472

EMITTERS
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

EMULSIONS
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

ENAMELS
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

ENCAPSULATING
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

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Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

END EFFECTORS
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
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[NASA-CASE-MFS-28161-1] c 37 N87-18817
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137
Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

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Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

ENDOSCOPES
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Apparatus for endoscopic examination — analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725

ENDOTHERMIC REACTIONS
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
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Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
ENERGY ABSORPTION
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
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[NASA-CASE-MSC-12279-1] c 15 N70-35679
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[NASA-CASE-XLE-00720] c 14 N70-40201
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[NASA-CASE-XMS-03722] c 15 N71-21530
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
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[NASA-CASE-XNP-01848] c 15 N71-28959
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
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Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
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[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
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[NASA-CASE-GSC-12970-1] c 08 N88-23808
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Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
ENERGY CONVERSION
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
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[NASA-CASE-MFS-23062-1] c 37 N77-12402
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
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[NASA-CASE-NPO-13810-1] c 44 N77-32582
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N90-17011
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[NASA-CASE-XLE-01015] c 03 N69-39698
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10796
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
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[NASA-CASE-MFS-23540-1] c 44 N79-26475
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
ENERGY DISSIPATION
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16389
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Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
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High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-28796
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263
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[NASA-CASE-NPO-14078-1] c 72 N80-14877
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[NASA-CASE-LAR-12706-1] c 35 N84-12444
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[NASA-CASE-MFS-21628-2] c 44 N76-23675
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[NASA-CASE-MFS-23167-1] c 44 N78-31667
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
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[NASA-CASE-NPO-13581-2] c 44 N78-31525
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
ENERGY SOURCES
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
ENERGY STORAGE
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Stored charge transistor
[NASA-CASE-NPO-11158-2] c 33 N75-31331
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
ENERGY TECHNOLOGY
Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14526
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
ENERGY TRANSFER
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[NASA-CASE-MFS-22743-1] c 44 N76-22657
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
ENGINE ANALYZERS
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
ENGINE CONTROL
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
ENGINE COOLANTS
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Injector for bipropellent rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
ENGINE DESIGN
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17165
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
ENGINE FAILURE
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
ENGINE INLETS
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 35 N79-26976
ENGINE MONITORING INSTRUMENTS
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

ENGINE NOISE
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
ENGINE PARTS
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
ENGINE STARTERS
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
ENGINE TESTS
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
ENGINEERING DRAWINGS
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
ENTHALPY
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
ENTRAINMENT
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
ENUMERATION
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
ENVIRONMENT SIMULATION
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
ENVIRONMENT SIMULATORS
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
ENVIRONMENTAL CONTROL
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22880
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
ENVIRONMENTAL ENGINEERING
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
ENVIRONMENTAL MONITORING
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25581
ENVIRONMENTAL TESTS
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
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Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
ENZYME ACTIVITY
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05503] c 04 N69-27487
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
ENZYMES
Protein sterilization method of firefly luciferase using reducant pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
EPICYCLOIDS
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
EPITAXY
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Epitaxial thinning process
[NASA-CASE-NPO-15798-1] c 76 N84-35112
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
EPOXY COMPOUNDS
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Antennia grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
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Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
EPOXY RESINS
Non-magnetic battery case Patent
[NASA-CASE-XGS-00696] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26348
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Epoxy-azindine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10418-1] c 24 N74-30001
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12586-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11416-1] c 24 N84-11213
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34291
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34292
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
EQUATIONS OF MOTION
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
EQUIPMENT
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
EQUIPMENT SPECIFICATIONS
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Stretcher Patent
[NASA-CASE-XMF-06580] c 05 N71-23159
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N79-27326
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24089
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N89-28829
EQUIPOTENTIALS
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
ERGOMETERS
Restraint system for ergometer
[NASA-CASE-MFS-21048-1] c 14 N73-27377
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30079
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11581-1] c 05 N73-32014
Ergometer calibrator --- for any e-gometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15832
EROSION
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
ERROR ANALYSIS
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495

Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

ERROR CORRECTING CODES
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21581
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

ERROR CORRECTING DEVICES
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18643
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

ERROR DETECTION CODES
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24833
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

ERROR SIGNALS
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18643
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Triac failure detector
[NASA-CASE-MFS-25807-1] c 33 N83-34190
Automated weld torch guidance control system
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[NASA-CASE-NPO-16869-1CU] c 74 N86-33139
Porous plug for reducing orifice induced pressure error in airfoils
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Aerial capsule emergency reparation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
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[NASA-CASE-XKS-02342] c 05 N71-11190
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[NASA-CASE-MSC-13291] c 31 N72-18859

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[NASA-CASE-MSC-12086-1] c 05 N71-12345
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[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
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[NASA-CASE-XGS-06306] c 17 N71-18044
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[NASA-CASE-XNP-04148] c 17 N71-24830
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[NASA-CASE-MFS-25363-1] c 37 N82-12441
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[NASA-CASE-LEW-13107-2] c 52 N84-23095
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[NASA-CASE-NPO-10788] c 06 N71-27254
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[NASA-CASE-NPO-10788-2] c 06 N72-27144
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
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[NASA-CASE-ARC-11402-3] c 23 N86-21582
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[NASA-CASE-LAR-13589-1] c 23 N86-32526
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[NASA-CASE-MSC-18430-1] c 37 N82-24491
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[NASA-CASE-LAR-12931-1] c 27 N84-22747
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[NASA-CASE-XNP-01749] c 27 N70-41897
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[NASA-CASE-XNP-09763] c 14 N71-20481
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[NASA-CASE-KSC-11085-1] c 54 N81-24724

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[NASA-CASE-MFS-22926-1] c 24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
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[NASA-CASE-LEW-12905-1] c 26 N78-18183
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[NASA-CASE-GSC-11577-3] c 24 N79-25143

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[NASA-CASE-XMS-01108] c 15 N69-24322
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[NASA-CASE-XMF-03290] c 15 N71-23256
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[NASA-CASE-ERC-10034] c 15 N71-24896
Evacuated, displacement compression mold — of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111

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[NASA-CASE-XLA-03105] c 15 N69-27483
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[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

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[NASA-CASE-ARC-10912-1] c 34 N77-18053
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[NASA-CASE-MFS-28217-1] c 34 N89-14352

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[NASA-CASE-XMF-06065] c 15 N71-20395
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[NASA-CASE-LAR-10511-1] c 15 N72-32487
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[NASA-CASE-GSC-12771-1] c 34 N84-14481
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[NASA-CASE-NPO-16788-1-CU] c 72 N89-29169

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Counter pumping debris excluder and separator — gas turbine shaft seals
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Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15436-1] c 35 N84-17555

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Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
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Gas turbine exhaust nozzle — for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
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[NASA-CASE-LAR-11570-1] c 34 N76-18307
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[NASA-CASE-LEW-12452-1] c 07 N78-25089
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[NASA-CASE-NPO-14260-1] c 28 N79-28342
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[NASA-CASE-XLE-00078] c 28 N70-33294
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[NASA-CASE-XLA-00154] c 28 N70-33374
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[NASA-CASE-XLE-00057] c 28 N70-38711

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[NASA-CASE-XNP-00676] c 15 N70-38996
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[NASA-CASE-LAR-11919-1] c 07 N78-27121
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
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[NASA-CASE-LAR-11903-2] c 71 N84-14873

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[NASA-CASE-ARC-11170-1] c 27 N79-11215
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[NASA-CASE-MFS-25707-1] c 35 N82-26631
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

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[NASA-CASE-XGS-01395] c 03 N69-21539
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[NASA-CASE-XLA-00138] c 31 N70-37981
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[NASA-CASE-XLE-00620] c 32 N70-41579
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
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[NASA-CASE-NPO-16236-1] c 44 N86-27706
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[NASA-CASE-LAR-13113-1] c 31 N87-25492

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[NASA-CASE-XGS-03865] c 14 N69-21363
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

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[NASA-CASE-XLA-00229] c 12 N70-33305
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[NASA-CASE-XNP-03378] c 03 N71-11051
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[NASA-CASE-ARC-10043-1] c 05 N71-11193
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[NASA-CASE-XLA-02698] c 05 N71-20268
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[NASA-CASE-XAC-07043] c 05 N71-23161

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[NASA-CASE-MSC-21465-1] c 61 N90-16410

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Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

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Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

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Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
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[NASA-CASE-LAR-10800-1] c 33 N72-27959
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[NASA-CASE-NPO-11330] c 33 N73-26958
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
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[NASA-CASE-XMF-00375] c 15 N70-34249

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Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
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[NASA-CASE-LAR-10941-2] c 37 N79-13364
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N86-14359

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[NASA-CASE-MFS-20861-1] c 18 N73-32437
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[NASA-CASE-NPO-11743-1] c 28 N74-27425
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[NASA-CASE-NPO-13858-1] c 28 N79-11231

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[NASA-CASE-NPO-11130] c 08 N72-20176

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[NASA-CASE-LAR-10319-1] c 14 N73-32322
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[NASA-CASE-NPO-13808-1] c 35 N78-15461
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

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[NASA-CASE-ARC-11613-1] c 33 N87-28833

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Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

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[NASA-CASE-XMF-07587] c 15 N71-18701

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[NASA-CASE-XLA-10322] c 15 N72-17452
Conductive elastomeric extensometer
[NASA-CASE-MFS-21043-1] c 52 N74-27864
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

EXTERNAL COMBUSTION ENGINES
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

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Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

EXTERNAL STORES
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

EXTERNAL TANKS
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[NASA-CASE-MFS-25853-1] c 16 N84-27784
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

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[NASA-CASE-XMS-01624] c 15 N70-40062
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[NASA-CASE-XMS-01077-1] c 37 N79-33467
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

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Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
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[NASA-CASE-XMF-05344] c 31 N71-16345
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[NASA-CASE-ARC-10140-1] c 15 N71-17653
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[NASA-CASE-MSC-12243-1] c 05 N71-24728
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[NASA-CASE-MSC-12411-1] c 05 N72-20096
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Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
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[NASA-CASE-ARC-11635-1] c 18 N90-16860

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[NASA-CASE-XKS-09340] c 07 N71-24614

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[NASA-CASE-NPO-10812] c 15 N73-13464
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
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[NASA-CASE-NPO-13758-2] c 31 N81-15154

EYE (ANATOMY)
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

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Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

EYE EXAMINATIONS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

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[NASA-CASE-XMS-06056-1] c 23 N71-24857

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Pressure variable capacitor
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Method of making a regeneratively cooled combustion chamber Patent
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Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of forming a rout cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
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[NASA-CASE-MSC-14331-3] c 27 N78-32262
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
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[NASA-CASE-LEW-12819-2] c 44 N79-18444
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Photoelectric detection system — manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
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[NASA-CASE-LEW-13401-1] c 44 N82-29709
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[NASA-CASE-NPO-15201-1] c 36 N83-35350
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
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[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041

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[NASA-CASE-MSC-12398] c 05 N72-20098
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[NASA-CASE-LAR-11825-1] c 35 N77-22449
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Heat sealable, flame and abrasion resistant coated fabric — clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Adjustable high emittance gap filler — reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Absorbent product to absorb fluids — for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
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[NASA-CASE-MSC-21082-1] c 27 N87-29672
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N89-25263
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[NASA-CASE-MFS-29241-1] c 24 N90-23480
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[NASA-CASE-MSC-21366-1] c 54 N90-25498

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[NASA-CASE-XGS-04480] c 16 N69-27491

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Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19913

FACTORIAL DESIGN
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195

FAIL-SAFE SYSTEMS
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
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[NASA-CASE-MSC-12549-1] c 37 N74-27903
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[NASA-CASE-HQN-10868-1] c 44 N79-14527
Module failure isolation circuit for paralleled inverters — preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
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[NASA-CASE-MSC-18498-1] c 60 N82-29013

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[NASA-CASE-MSC-21436-1] c 37 N90-21390

FAILURE ANALYSIS
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[NASA-CASE-LAR-12027-1] c 39 N79-22537
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N89-28586

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[NASA-CASE-LEW-10856-1] c 15 N72-22490
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
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[NASA-CASE-LAR-13225-1] c 24 N89-14258
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N90-16410
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[NASA-CASE-LEW-14124-1] c 35 N90-23712

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Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
Low-drag ground ve[illegible] particularly suited for use in safety transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

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[NASA-CASE-XMF-05844] c 14 N71-17587

FAR INFRARED RADIATION
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

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Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641

FARADAY EFFECT
Faraday rotation measurement method and apparatus
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FAST FOURIER TRANSFORMATIONS
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
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[NASA-CASE-XMF-00456] c 14 N70-34705
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[NASA-CASE-XMS-00864] c 05 N70-36493
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
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[NASA-CASE-XLA-01027] c 31 N71-24035
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[NASA-CASE-XMS-10660-1] c 15 N71-25975
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[NASA-CASE-XMS-04670] c 54 N78-17678
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
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[NASA-CASE-MSC-21354-1] c 37 N88-24969
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[NASA-CASE-MSC-21436-1] c 37 N90-21390
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[NASA-CASE-MSC-21504-1] c 18 N90-26859
Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114

FATIGUE (MATERIALS)
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[NASA-CASE-XLA-08530] c 32 N71-25360
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

FATIGUE LIFE
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493

FATIGUE TESTING MACHINES
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

FATIGUE TESTS
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Heating and cooling system — for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712

FATS
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

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[NASA-CASE-MSC-21354-1] c 37 N88-24969
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
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[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

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Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495

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[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28924
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Method of producing silicon — gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
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[NASA-CASE-NPO-13758-2] c 31 N81-15154

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[NASA-CASE-MFS-25631-1] c 34 N84-12406

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[NASA-CASE-ARC-10020] c 10 N72-17172
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
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[NASA-CASE-NPO-10760] c 09 N72-25254

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[NASA-CASE-MSC-13276-1] c 14 N71-27058
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[NASA-CASE-XNP-01107] c 10 N71-28859
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Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
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[NASA-CASE-NPO-11406] c 08 N73-12175
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[NASA-CASE-GSC-12145-1] c 33 N78-32339
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

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Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-16594
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
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[NASA-CASE-XKS-06167] c 08 N71-24890
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
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[NASA-CASE-GSC-10554-1] c 08 N71-29033
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[NASA-CASE-NPO-10700] c 07 N71-33613
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[NASA-CASE-LAR-10682-1] c 02 N73-26004
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22685
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13795-1] c 70 N90-17403
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

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Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

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Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718

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Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N90-27384

FEET (ANATOMY)
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

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Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

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Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Urine collection apparatus --- feminine hygene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

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Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

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Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

FERROFLUIDS
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[NASA-CASE-MSC-20148-1] c 37 N85-29284

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High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

FERROMAGNETIC MATERIALS
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335

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High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

FIBER COMPOSITES
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
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[NASA-CASE-LAR-13562-1] c 24 N90-25196

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Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

FIBER RELEASE
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

FIBER STRENGTH
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

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Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

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[NASA-CASE-LEW-14472-1] c 24 N89-14259
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793

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[NASA-CASE-XNP-07040] c 08 N71-12500
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[NASA-CASE-GSC-10022-1] c 10 N71-25882
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[NASA-CASE-NPO-10199] c 09 N72-17156
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[NASA-CASE-NPO-11333] c 08 N72-22162
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Electronic system for high power load control — solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

FIELD EMISSION
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832

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Scanner — photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

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Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
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[NASA-CASE-LEW-11015] c 26 N73-32571
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[NASA-CASE-LEW-12619-1] c 24 N77-19171

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[NASA-CASE-XLE-00387] c 33 N70-34812
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[NASA-CASE-LEW-11726-1] c 26 N73-26752

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Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Polymeric compositions and their method of manufacture — forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Polyvinyl alcohol battery separator containing inert filler — alkaline batteries
[NASA-CASE-LEW-13558-1] c 44 N81-27615
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[NASA-CASE-ARC-11310-1] c 27 N82-24339
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[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

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Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

FILM COOLING
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

FILM THICKNESS
Chemical vapor deposition reactor — providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Degassifying and mixing apparatus for liquids — potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

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Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

FILTERS
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
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[NASA-CASE-XNP-04262-2] c 17 N71-26773
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FILTRATION
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N90-27113

FINGERS
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N90-27261

FINS
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

FIRE EXTINGUISHERS
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle — for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Synthesis of dawsonites — for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

FIRE PREVENTION
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

FIREPROOFING
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Flexible fire retardant polyisocyanate modified neoprene foam — for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

FIRES
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

FIRING (IGNITING)
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

FITTINGS
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

FIXED WINGS
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

FIXTURES
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11485-1] c 37 N76-21554
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

FLAME PROBES
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

FLAME RETARDANTS
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions — fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides — flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides — reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Heat sealable, flame and abrasion resistant coated fabric — clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

FLAME SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
FLAME TEMPERATURE
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
FLAMES
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
FLAMMABILITY
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Light weight fire resistant graphite composites
[US-PATENT-4,596,007] c 24 N86-28131
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
FLANGES
Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N90-27111
FLAPS (CONTROL SURFACES)
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
FLARED BODIES
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
FLASH LAMPS
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
FLAT CONDUCTORS
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
FLAT PLATES
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
FLEXIBILITY
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-26553
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
FLEXIBLE BODIES
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Deflectore rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24726
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
FLEXIBLE WINGS
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
FLEXING
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
FLIGHT
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
FLIGHT ALTITUDE
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
FLIGHT CLOTHING
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
FLIGHT CONTROL
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
FLIGHT CREWS
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
FLIGHT INSTRUMENTS
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
FLIGHT PATHS
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
FLIGHT RECORDERS
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
FLIGHT SAFETY
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
FLIGHT SIMULATION
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
FLIGHT SIMULATORS
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32[illegible]
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
FLIGHT TESTS
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
FLIGHT TRAINING
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990
FLIGHT VEHICLES
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
FLIP-FLOPS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
FLOAT ZONES
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
FLOATING
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
FLOATS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
FLOORS
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918
FLOTATION
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
FLOW CHAMBERS
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
FLOW DIRECTION INDICATORS
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
FLOW DISTORTION
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
FLOW DISTRIBUTION
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N90-17051
FLOW MEASUREMENT
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
FLOW REGULATORS
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Fluid flow control value Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Pressure modulating value
[NASA-CASE-MSC-14005-1] c 37 N77-28487
Automotive gas turbine fuel control
[NASA-CASE-LEW-13785-1] c 37 N78-24545
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N86-14071
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N90-17252
FLOW RESISTANCE
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
FLOW STABILITY
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
FLOW VELOCITY
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Densitometer Patent
[NASA-CASE-XLE-00668] c 14 N70-41330
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
FLOW VISUALIZATION
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
FLOWMETERS
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Respiratory anaysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 25 N85-21596
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

FLUID AMPLIFIERS
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

FLUID DYNAMICS
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

FLUID FILLED SHELLS
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

FLUID FILMS
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

FLUID FILTERS
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

FLUID FLOW
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
Fluclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N89-14348
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

FLUID INJECTION
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

FLUID JETS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

FLUID LOGIC
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

FLUID MANAGEMENT
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

FLUID MECHANICS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

FLUID POWER
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

FLUID PRESSURE
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

FLUID ROTOR GYROSCOPES
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

FLUID SWITCHING ELEMENTS
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

FLUID TRANSMISSION LINES
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

FLUIDIC CIRCUITS
Technique of duplicating fragile core
[NASA-CASE-XLA-07629] c 15 N72-16329
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

FLUIDICS
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

FLUIDIZED BED PROCESSORS
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

FLUIDS
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

FLUORESCENCE
Apparatus for producing three-dimensional recordings of flouresence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787

Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

FLUORIDES
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N89-14259

FLUORINATION
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

FLUORINE
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

FLUORINE COMPOUNDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491

FLUORO COMPOUNDS
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497

FLUOROCARBONS
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404

FLUOROHYDROCARBONS
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

FLUOROPOLYMERS
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13006-2] c 27 N90-16949
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

FLUTTER
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

FLUTTER ANALYSIS
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

FLUX (RATE)
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-26575

FLUX DENSITY
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-26575
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N90-17011

FLUXES
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

FLYWHEELS
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

FOAMS
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13006-2] c 27 N90-16949

FOCAL PLANE DEVICES
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329

FOCI
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

FOCUSING
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350

FOG
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

FOILS (MATERIALS)
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

FOLDING
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180

FOLDING STRUCTURES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539

Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Telescoping columns — parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

FOOD
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

FOOTPRINTS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

FORCE
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

FORCE DISTRIBUTION
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Subminiature insertable force transducer — including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927

FORCED VIBRATION
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

FOREBODIES
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

FORMALDEHYDE
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

FORMAT
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

FORMATES
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

FORMING TECHNIQUES
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Molding apparatus — for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method and apparatus for producing concentric hollow spheres — inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

FOSSIL FUELS
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

FOUNDATIONS
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

FOURIER TRANSFORMATION
Continuous Fourier transform method and apparatus — for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

FRACTIONATION
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

FRACTURE MECHANICS
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

FRACTURE STRENGTH
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N90-15227
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

FRAMES
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Laser measuring system for incremental assemblies — measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

FRAMING CAMERAS
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

FREE FLIGHT TEST APPARATUS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

FREE WING AIRCRAFT
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

FREEZE DRYING
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

FREEZING
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

FREON
Solar energy power system — using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

FREQUENCIES
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

FREQUENCY ANALYZERS
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Continuous Fourier transform method and apparatus — for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

FREQUENCY CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

FREQUENCY CONVERTERS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22068-1] c 33 N75-15874

FREQUENCY DISCRIMINATORS
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22695
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

FREQUENCY DISTRIBUTION
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
FREQUENCY DIVIDERS
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
FREQUENCY DIVISION MULTIPLEXING
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
FREQUENCY MEASUREMENT
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
FREQUENCY MODULATION
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191
FREQUENCY MULTIPLIERS
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
FREQUENCY RANGES
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Multiple tone digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
FREQUENCY SCANNING
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
FREQUENCY SHIFT
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
FREQUENCY SHIFT KEYING
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02689] c 07 N71-11282
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
FREQUENCY STABILITY
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-19614
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
FREQUENCY STANDARDS
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
FREQUENCY SYNCHRONIZATION
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03823] c 09 N73-28084
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
FREQUENCY SYNTHESIZERS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
FRICTION
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
FRICTION DRAG
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
FRICTION FACTOR
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N90-26342
FRICTION MEASUREMENT
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
FRICTION REDUCTION
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
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[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
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[NASA-CASE-XMF-01887] c 15 N71-10617
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[NASA-CASE-MFS-14685] c 31 N71-15689
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
FROST
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
FROZEN FOODS
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
FUEL CAPSULES
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
FUEL CELL POWER PLANTS
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
FUEL CELLS
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[NASA-CASE-XNP-04264] c 03 N69-21337
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
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[NASA-CASE-MSC-12568-1] c 24 N76-14204
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[NASA-CASE-NPO-13732-1] c 44 N79-10513
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
FUEL COMBUSTION
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[NASA-CASE-LEW-12137-1] c 25 N78-10224
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
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Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Methods and apparatus for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N90-26073
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[NASA-CASE-XMF-00185] c 21 N70-34539
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[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793

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[NASA-CASE-LEW-12785-1] c 37 N78-24545
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[NASA-CASE-XMS-04890-1] c 15 N70-22192
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
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[NASA-CASE-MFS-11204] c 14 N71-29134

FUEL INJECTION
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
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[NASA-CASE-LEW-12990-1] c 07 N81-29129
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Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
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[NASA-CASE-LEW-14846-1] c 20 N90-15130

FUEL OILS
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[NASA-CASE-LEW-12830-1] c 07 N77-23106

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[NASA-CASE-MSC-12139-1] c 28 N71-14058

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[NASA-CASE-LEW-10210-1] c 28 N71-26781
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

FUEL TANK PRESSURIZATION
Venting vapor apparatus Patent
[NASA-CASE-XLE 00288] c 15 N70-34247
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929

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Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-1] c 35 N89-12843

FUEL VALVES
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426

FUEL-AIR RATIO
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FUELS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

FUNCTION GENERATORS
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

FURLABLE ANTENNAS
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457

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[NASA-CASE-XLE-10466] c 17 N69-25147
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
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[NASA-CASE-MFS-28087-1] c 35 N87-23944
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415

FUSELAGES
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

FUSION (MELTING)
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[NASA-CASE-XGS-00963] c 15 N69-39735
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[NASA-CASE-XNP-00597] c 18 N71-23088
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
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[NASA-CASE-LAR-13181-1] c 31 N85-29083

FUSION WELDING
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

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GADOLINIUM
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
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[NASA-CASE-NPO-15982-1] c 60 N87-21591

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[NASA-CASE-XAC-04885] c 14 N71-23790

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GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
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[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685

GALLIUM PHOSPHIDES
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
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[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

GALVANIC SKIN RESPONSE
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

GAMMA RAY SPECTROMETERS
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

GAMMA RAYS
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

GANTRY CRANES
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021

GAPS
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
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[NASA-CASE-LEW-13401-1] c 44 N82-29709

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[NASA-CASE-XFR-10856] c 05 N71-11189
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
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[NASA-CASE-ARC-11100-1] c 54 N78-31736
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
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[NASA-CASE-XMS-03694-1] c 54 N82-29002

GAS ANALYSIS
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed thrcugh a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025

GAS BAGS
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[NASA-CASE-XLA-09881] c 31 N71-16085

GAS BEARINGS
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

GAS CHROMATOGRAPHY
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

GAS COMPOSITION
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

GAS COOLED REACTORS
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GAS COOLING
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

GAS DENSITY
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

GAS DETECTORS
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

GAS DISCHARGE TUBES
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

GAS DISCHARGES
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961

GAS EVOLUTION
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

GAS EXPANSION
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

GAS FLOW
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
High pressure gas filter system Patent
[NASA-CASE-MFS-12606] c 14 N71-17588
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17556
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

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Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Electrolytic gas operated actuator
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Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13896
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[NASA-CASE-NPO-13464-1] c 44 N76-18642
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GAS GUNS
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

GAS HEATING
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

GAS INJECTION
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[NASA-CASE-XLE-03494] c 27 N71-21819
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

GAS IONIZATION
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[NASA-CASE-XLA-01400] c 07 N70-41331
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
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[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

GAS JETS
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[NASA-CASE-NPO-15851-1] c 37 N85-21652

GAS LASERS
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

GAS LUBRICANTS
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

GAS MASERS
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

GAS MIXTURES
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[NASA-CASE-XLA-01131] c 14 N71-10774
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
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[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

GAS PIPES
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[NASA-CASE-NPO-10117] c 15 N71-15608
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[NASA-CASE-MFS-29260-1] c 37 N90-19602

GAS PRESSURE
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[NASA-CASE-XMS-01546] c 14 N70-40233
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[NASA-CASE-XAC-02877] c 14 N70-41681
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[NASA-CASE-ARC-10263-1] c 14 N72-22438
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

GAS STREAMS
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

GAS TEMPERATURE
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[NASA-CASE-XLA-03375] c 16 N71-24074

GAS TRANSPORT
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[NASA-CASE-NPO-11978] c 31 N78-17238

GAS TUBES
Toggle mechanism for pinching metal tubes
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GAS TUNGSTEN ARC WELDING
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N89-23738
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

GAS TURBINE ENGINES
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Bearing seal usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
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[NASA-CASE-LEW-12917-1] c 07 N78-18067
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
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[NASA-CASE-LEW-12378-1] c 07 N79-14097
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32386
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

GAS TURBINES
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188

GAS VALVES
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

GAS WELDING
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
GAS-LIQUID INTERACTIONS
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
GAS-METAL INTERACTIONS
Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
GASDYNAMIC LASERS
Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
GASEOUS DIFFUSION
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
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[NASA-CASE-XLE-00376] c 28 N70-37245
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[NASA-CASE-XMF-06926] c 28 N71-22983
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Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
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[NASA-CASE-NPO-10890] c 11 N73-12265
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-1] c 35 N89-12843
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
GASIFICATION
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
GASKETS
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Reinforced polyquinoxaline gasket and method of preparing the same — resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546
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Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Controller for computer control of brushless dc motors — automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Pulsed phase locked loop strain monitor — voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
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[NASA-CASE-NPO-16045-1] c 76 N87-13313
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Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
GAW-1 AIRFOIL
Airfoil shape for flight at subsonic speeds — design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
GEAR TEETH
Wabble gear drive mechanism — for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
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Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
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Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
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Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
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Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
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Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
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[NASA-CASE-MFS-29149-1] c 33 N90-19492
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[NASA-CASE-MFS-28234-1] c 52 N90-20616
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Geodetic distance measuring apparatus
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[NASA-CASE-GSC-12609-1] c 36 N81-22344
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[NASA-CASE-NPO-14231-1] c 46 N80-10709
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[NASA-CASE-NPO-14558-1] c 46 N80-24906
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[NASA-CASE-ARC-11505-1] c 18 N84-22612
Ice detector
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Germanium coated microbridge and method
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GERMANIUM ALLOYS
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[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
GIMBALS
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
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[NASA-CASE-XMF-01669] c 21 N71-23289
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[NASA-CASE-GSC-10306-1] c 15 N71-24694
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Autonomous navigation system — gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
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[NASA-CASE-FRC-11043-1] c 06 N83-33882
GLANDS (SEALS)
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
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Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39986
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Covered silicon solar cells and method of manufacture — with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
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[NASA-CASE-ARC-11051-1] c 27 N78-32250
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[NASA-CASE-NPO-14845-1] c 27 N82-28442
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[NASA-CASE-GSC-12636-1] c 31 N83-27058
Acoustic bubble removal method
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Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
GLASS COATINGS
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
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[NASA-CASE-LEW-10278-1] c 15 N71-28582
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
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[NASA-CASE-LAR-10385-3] c 74 N78-15879
Method for repair of thin glass coatings — on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
High temperature glass thermal control structure and coating — for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11184-1] c 44 N83-34448
GLASS ELECTRODES
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
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GLASS FIBER REINFORCED PLASTICS
Low density bismaleimide-carbon microballoon composites
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Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
GLASS FIBERS
Non-magnetic battery case Patent
[NASA-CASE-XGS-00686] c 03 N71-11053
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
GLASSWARE
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
GLAUCOMA
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
GLIDE PATHS
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
GLOBAL POSITIONING SYSTEM
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
GLOBES
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
GLOVES
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
GLOW DISCHARGES
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
GLUCOSE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
GLYCOLS
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
GOLD COATINGS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
GONDOLAS
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
GRADIENTS
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
GRANULAR MATERIALS
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
GRAPHITE
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
GRAPHITE-EPOXY COMPOSITES
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
GRAPHITIZATION
Brominated graphite fibers and method of producing the same
[NASA-CASE-LEW-14698-1] c 24 N88-29888
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N89-14259
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262
GRATINGS (SPECTRA)
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153
GRAVIMETERS
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
GRAVITATION
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789
GRAVITATIONAL CONSTANT
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
GRAVITATIONAL EFFECTS
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
GRAVITATIONAL FIELDS
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
GRAVITY GRADIENT SATELLITES
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
GRAVITY GRADIOMETERS
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
GRAZING INCIDENCE
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
GRAZING INCIDENCE TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
GREENHOUSES
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027
GRIDS
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
GRINDING (MATERIAL REMOVAL)
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
GRINDING MACHINES
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
GROOVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29190
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N90-27111
GROUND EFFECT (COMMUNICATIONS)
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15330
GROUND EFFECT MACHINES
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
GROUND HANDLING
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
GROUND STATIONS
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
GROUND SUPPORT EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
GROUND-AIR-GROUND COMMUNICATION
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491

Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

GROUT
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N33-34043

GUARDS (SHIELDS)
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

GUIDANCE (MOTION)
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

GUIDANCE SENSORS
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

GUN LAUNCHERS
Self-obturating, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

GUN PROPELLANTS
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

GUNN EFFECT
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

GUNS
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

GYNECOLOGY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

GYRATORS
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

GYROSCOPES
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

GYROSCOPIC PENDULUMS
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

GYROSTABILIZERS
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

H

HAFNIUM
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

HALIDES
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

HALL EFFECT
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HALL GENERATORS
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

HALOGENS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

HAMMERS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

HAND (ANATOMY)
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

HANDLES
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

HANDLING EQUIPMENT
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

HARDENING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

HARDNESS
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153

HARMONIC GENERATORS
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

HARNESSES
Pressure suit be-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

HATCHES
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278

HAZARDS
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

HEAD-UP DISPLAYS
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

HEART FUNCTION
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726

HEART RATE
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

HEAT
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599

HEAT EXCHANGERS
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20640-1] c 34 N88-29132
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

HEAT FLUX
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

HEAT MEASUREMENT
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c 35 N74-27860
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13526-1] c 25 N88-29002
HEAT OF COMBUSTION
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13526-1] c 25 N88-29002
HEAT OF VAPORIZATION
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
HEAT PIPES
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Heat pipe thermal switch
[NASA-CASE-GSC-12612-1] c 34 N83-35307
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
Space vehicle thermal rejection system
[NASA-CASE-LAR-13736-1] c 18 N87-29586
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
HEAT PUMPS
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
HEAT RADIATORS
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
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[NASA-CASE-XMS-02087] c 09 N70-41717
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[NASA-CASE-XMF-04208] c 33 N71-29051
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[NASA-CASE-ARC-10912-1] c 34 N77-19353
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[NASA-CASE-NPO-10691] c 14 N71-26199
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[NASA-CASE-LEW-12950-2] c 34 N85-29179
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[NASA-CASE-MSC-20497-1] c 34 N85-29180
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[NASA-CASE-MSC-21271-1] c 34 N90-21999
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[NASA-CASE-XMS-04318] c 15 N69-27871
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[NASA-CASE-XLA-01091] c 15 N71-10672
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[NASA-CASE-LEW-10393-1] c 17 N71-15468
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[NASA-CASE-XNP-02139] c 18 N71-24184
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[NASA-CASE-LEW-10805-3] c 26 N74-10521
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[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
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[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

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[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
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[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
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[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
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[NASA-CASE-XMF-04237] c 33 N71-16278
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[NASA-CASE-XAC-01677] c 09 N71-20816
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[NASA-CASE-NPO-15753-1] c 27 N84-33589
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[NASA-CASE-LAR-13040-1] c 37 N85-29286
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[NASA-CASE-MFS-28327-1] c 18 N89-28556

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[NASA-CASE-LAR-13630-1] c 08 N88-23809

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[NASA-CASE-LAR-13630-1] c 08 N88-23809

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[NASA-CASE-LAR-10557] c 02 N72-11018

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[NASA-CASE-ARC-10807-1] c 05 N77-17029
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[NASA-CASE-LAR-11201-1] c 35 N78-24515
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[NASA-CASE-LAR-12396-1] c 02 N84-28732
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[NASA-CASE-LAR-13233-1] c 05 N84-33400
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[NASA-CASE-ARC-11633-1] c 08 N87-23631
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[NASA-CASE-LAR-13215-1] c 02 N89-14224

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[NASA-CASE-XNP-00733] c 06 N70-34946
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[NASA-CASE-XMF-06888] c 15 N71-24044
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
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[NASA-CASE-NPO-13459-1] c 31 N77-10229
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[NASA-CASE-GSC-12168-1] c 31 N79-17029
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[NASA-CASE-NPO-16257-1] c 31 N85-29082

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Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

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Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402

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Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Direction sensitive laser velocimeter — determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

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[NASA-CASE-XMS-04935] c 05 N71-11190
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
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[NASA-CASE-XMS-04926] c 54 N78-17679
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[NASA-CASE-XMS-09653] c 54 N78-17680
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[NASA-CASE-MSC-10954-1] c 54 N78-18761
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[NASA-CASE-LAR-12320-1] c 54 N81-27806
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[NASA-CASE-MSC-21503-1] c 27 N90-16925

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[NASA-CASE-LAR-12995-1] c 35 N84-22933

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[NASA-CASE-NPO-10337] c 14 N71-15604

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[NASA-CASE-XMS-04072] c 15 N70-42017
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[NASA-CASE-XGS-00824] c 15 N71-16078
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
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[NASA-CASE-NPO-10796] c 15 N71-27068
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
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[NASA-CASE-NPO-15115-1] c 37 N82-24493
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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

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Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515

HEXAMETHYLENETETRAMINE
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999

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Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

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Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

HIGH ACCELERATION
Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819

High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
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[NASA-CASE-XAR-01547] c 05 N69-21473
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
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Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
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[NASA-CASE-XLA-04126] c 28 N71-26779
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[NASA-CASE-XLA-00142] c 02 N70-33286
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[NASA-CASE-XLA-00806] c 02 N70-34858
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[NASA-CASE-LAR-12175-1] c 05 N82-28279
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Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
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[NASA-CASE-XMF-04958-1] c 10 N71-26414
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[NASA-CASE-LAR-12215-1] c 08 N79-23097
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N90-27042
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[NASA-CASE-LAR-12215-1] c 08 N79-23097
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[NASA-CASE-XGS-01418] c 09 N71-23573
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[NASA-CASE-XAC-11225] c 14 N69-27486
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[NASA-CASE-LAR-12592-1] c 36 N82-13415
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[NASA-CASE-NPO-14556-1] c 33 N82-24418
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[NASA-CASE-NPO-14782-1] c 36 N82-28616
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[NASA-CASE-XAC-00074] c 15 N70-34817
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
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[NASA-CASE-XNP-01152] c 15 N70-41811
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
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[NASA-CASE-XLA-00378] c 11 N71-15925
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[NASA-CASE-MSC-11010] c 15 N71-19485
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[NASA-CASE-XKS-02582] c 15 N71-21234
High pressure helium purifier Patent
[NASA-CASE-XMF-06886] c 15 N71-24044
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[NASA-CASE-MFS-20629] c 12 N72-21310
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
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[NASA-CASE-MFS-25842-2] c 37 N86-20788
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
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[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
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[NASA-CASE-MSC-21470-1] c 05 N90-16771
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[NASA-CASE-NPO-11426] c 07 N73-26119
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[NASA-CASE-NPO-13604-1] c 35 N76-31490
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[NASA-CASE-NPO-14078-1] c 72 N80-14877
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[NASA-CASE-NPO-14448-1] c 74 N81-29963
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[NASA-CASE-GSC-12683-1] c 74 N83-36898
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[NASA-TM-76884] c 24 N85-25436
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[NASA-CASE-XLE-00726] c 17 N71-15644
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[NASA-CASE-XMF-02786] c 17 N71-20743
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[NASA-CASE-XLE-00490] c 33 N70-34545
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[NASA-CASE-XNP-00597] c 18 N71-23088
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[NASA-CASE-LEW-13770-5] c 27 N85-21352
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[NASA-CASE-XLE-10466] c 17 N69-25147
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[NASA-CASE-XNP-09205] c 14 N71-17657
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[NASA-CASE-ARC-10711-2] c 33 N76-21390
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[NASA-CASE-MSC-16973-1] c 37 N81-14317
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[NASA-CASE-LEW-13088-1] c 26 N81-25188
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[NASA-CASE-MSC-18526-1] c 37 N82-24494
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[NASA-CASE-LAR-12588-1] c 34 N85-21568
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[NASA-CASE-LEW-14057-1] c 24 N85-35233
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[NASA-CASE-LAR-10578-1] c 12 N73-25262

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[NASA-CASE-NPO-13550-1] c 36 N77-26477
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[NASA-CASE-LEW-12274-1] c 37 N80-31790
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[NASA-CASE-XLE-08511] c 18 N71-23710
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[NASA-CASE-LEW-11930-4] c 24 N79-17916

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[NASA-CASE-NPO-17949-1-CU] c 76 N90-26684

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Apparatus for positioning and loading a test specimen Patent
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[NASA-CASE-MFS-23923-1] c 35 N81-19426
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[NASA-CASE-NPO-10331] c 09 N71-26701
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[NASA-CASE-MFS-22906-1] c 75 N78-27913

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Space environmental work simulator Patent
[NASA-CASE-XMF-07486] c 11 N71-18773

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[NASA-CASE-XLE-03778] c 09 N69-21542
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[NASA-CASE-XNP-00738] c 09 N70-38201
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
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[NASA-CASE-XLE-02008] c 09 N71-21583
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[NASA-CASE-GSC-11849-1] c 33 N76-16332
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[NASA-CASE-LEW-12444-1] c 33 N77-28385
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[NASA-CASE-LEW-13400-1] c 44 N82-31764
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[NASA-CASE-NPO-15358-1] c 33 N83-27126
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[NASA-CASE-LEW-13401-2] c 44 N83-32177
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[NASA-CASE-GSC-12817-1] c 33 N85-29146
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[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

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[NASA-CASE-LAR-12077-1] c 31 N81-25259
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[NASA-CASE-NPO-16038-1] c 37 N86-19605
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[NASA-CASE-LAR-13490-1] c 18 N87-14413
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[NASA-CASE-MSC-21330-1] c 16 N88-24660
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[NASA-CASE-MSC-21096-1] c 18 N89-12621

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[NASA-CASE-XMS-03700] c 15 N69-24266
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
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[NASA-CASE-XNP-03637] c 15 N71-21311
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[NASA-CASE-MFS-20760] c 14 N72-33377
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[NASA-CASE-FRC-10081-1] c 37 N77-14477
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[NASA-CASE-MFS-23088-1] c 37 N77-23483
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[NASA-CASE-NPO-10233-1] c 74 N78-33913
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[NASA-CASE-NPO-15539-1] c 37 N82-11469
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[NASA-CASE-MFS-25363-1] c 37 N82-12441
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[NASA-CASE-MSC-18723-1] c 35 N83-21312
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[NASA-CASE-GSC-12619-1] c 37 N84-12491
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[NASA-CASE-LAR-12881-1] c 27 N84-14323
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[NASA-CASE-ARC-11422-1] c 35 N86-20751
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[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
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[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
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[NASA-CASE-MSC-21365-1] c 37 N90-20408
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HOLE DISTRIBUTION (MECHANICS)
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[NASA-CASE-NPO-13540-1] c 35 N77-14409

HOLE GEOMETRY (MECHANICS)
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

HOLE MOBILITY
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460

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[NASA-CASE-MFS-22649-1] c 37 N75-25186
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[NASA-CASE-LAR-13453-1] c 37 N88-14361

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[NASA-CASE-NPO-13732-1] c 44 N79-10513

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[NASA-CASE-LEW-12940-1] c 72 N80-33186
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[NASA-CASE-NPO-15560-1] c 33 N85-21491

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[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

HOLOGRAPHIC INTERFEROMETRY
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[NASA-CASE-GSC-12614-1] c 74 N83-32577
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

HOLOGRAPHY
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
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[NASA-CASE-MFS-20596] c 14 N72-17324
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Real time, large volume moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487

HOMING DEVICES
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

HONEYCOMB CORES
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541

HONEYCOMB STRUCTURES
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180

Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

HOOP COLUMN ANTENNAS
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

HOPPERS
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814

HORIZON SCANNERS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N89-27461
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

HORIZONTAL SPACECRAFT LANDING
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

HORIZONTAL TAIL SURFACES
Translating horizontal tail Patent
[NASA-CASE-XLA-06801-1] c 02 N71-11043

HORN ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

HOSES
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

HOT CATHODES
Ion thrustor cathode
[NASA-CASE-XLE-07067] c 06 N69-39889

HOT CORROSION
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

HOT ISOSTATIC PRESSING
Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493

HOT PRESSING
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

HOT WORKING
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

HOT-FILM ANEMOMETERS
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

HOT-WIRE ANEMOMETERS
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

HOT-WIRE FLOWMETERS
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

HOUSINGS
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

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Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

HUBBLE SPACE TELESCOPE
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817

HUBS
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

HUGONIOT EQUATION OF STATE
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[NASA-CASE-LAR-11059-1] c 76 N75-12810

HULLS (STRUCTURES)
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305

HUMAN BEINGS
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24736
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

HUMAN BODY
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10858] c 05 N71-11189
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706

HUMAN FACTORS ENGINEERING
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953

HUMAN PERFORMANCE
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015

HUMAN REACTIONS
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

HUMAN WASTES
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

HUMIDITY
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

HUMIDITY MEASUREMENT
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

HYBRID CIRCUITS
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

HYBRID COMPUTERS
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920

HYBRID PROPELLANTS
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392

HYDRAULIC CONTROL
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18560
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479

HYDRAULIC EQUIPMENT
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07658] c 06 N71-22975
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028

Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785

HYDRAULIC FLUIDS
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790

HYDRAULIC JETS
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

HYDRAZINE ENGINES
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510

HYDRAZINE NITROFORM
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764

HYDRAZINES
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

HYDRIDES
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

HYDROCARBON COMBUSTION
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452

HYDROCARBON FUEL PRODUCTION
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

HYDROCARBON FUELS
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098

HYDROCARBONS
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

HYDROCHLORIC ACID
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742

HYDROCHLORIDES
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

HYDRODYNAMICS
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

HYDROFOILS
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305

HYDROFORMING
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346

HYDROGEN
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

HYDROGEN ATOMS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

HYDROGEN EMBRITTLEMENT
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

HYDROGEN ENGINES
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526

HYDROGEN FUELS
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298

HYDROGEN IONS
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

HYDROGEN OXYGEN FUEL CELLS
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044

HYDROGEN PEROXIDE
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

HYDROGEN PRODUCTION
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744

HYDROGENATION
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

HYDROLOGY
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

HYDROLYSIS
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

HYDROSTATIC PRESSURE
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

HYDROSTATICS
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

HYDROXIDES
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

HYDROXYL COMPOUNDS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

HYGIENE
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

HYGROMETERS
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

HYGROSCOPICITY
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 16 N71-24934

HYPERCUBE MULTIPROCESSORS
A method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N89-24084
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

HYPERFINE STRUCTURE
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142

HYPERGOLIC ROCKET PROPELLANTS
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634

HYPERSONIC AIRCRAFT
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

HYPERSONIC FLIGHT
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

HYPERSONIC FLOW
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

HYPERSONIC SPEED
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

HYPERSONIC VEHICLES
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

HYPERSONIC WIND TUNNELS
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770

HYPERTHERMIA
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

HYPERVELOCITY GUNS
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
Collapsible pistons
[NASA-CASE-MSC-13769-1] c 11 N73-32152
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

HYPERVELOCITY IMPACT
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26658

HYPERVELOCITY PROJECTILES
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16262
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324

HYPERVELOCITY WIND TUNNELS
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

HYSTERESIS
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

I

ICE
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149

IDENTIFYING
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

IGNITERS
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13628-1] c 37 N79-11405
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

IGNITION
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

IGNITION LIMITS
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

IGNITION SYSTEMS
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 26 N70-38505
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00676] c 28 N70-41311
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

IGNITION TEMPERATURE
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629

ILLUMINATORS
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292

IMAGE ANALYSIS
Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360

IMAGE CONTRAST
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11969-1] c 74 N77-28932

IMAGE CONVERTERS
Deep tray, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Resistive anode image converter
[NASA-CASE-HQN-10676-1] c 33 N76-27473
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

IMAGE CORRELATORS
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

IMAGE DISSECTOR TUBES
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935

IMAGE ENHANCEMENT
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

IMAGE FILTERS
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00082] c 14 N70-33254
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706

IMAGE INTENSIFIERS
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

IMAGE PROCESSING
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

IMAGE RESOLUTION
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

IMAGE ROTATION
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13976

IMAGE TUBES
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

IMAGERY
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

IMAGES
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27726
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

IMAGING RADAR
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

IMAGING TECHNIQUES
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Phototransistor imaging system
[NASA-CASE-MFS-20609] c 23 N73-13660
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11969-1] c 74 N77-28932
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12833-1] c 33 N82-24416
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36896
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396

Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 39 N90-27595

IMIDES
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
High performance mixed bismide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

IMINES
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

IMMOBILIZATION
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704

IMPACT
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Method and apparatus for determining time, direction and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132

IMPACT ACCELERATION
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

IMPACT DAMAGE
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Impact tolerant material
[NASA-CASE-LAR-12867-3] c 24 N90-21822
Semi-active orbital debris sweeper
[NASA-CASE-MSC-21534-1] c 18 N90-26860

IMPACT LOADS
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

IMPACT RESISTANCE
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

IMPACT STRENGTH
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

IMPACT TESTING MACHINES
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

IMPACT TESTS
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

IMPACT TOLERANCES
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

IMPEDANCE
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

IMPEDANCE MATCHING
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-26809

IMPEDANCE MEASUREMENT
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

IMPELLERS
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

IMPLANTATION
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

IMPLANTED ELECTRODES (BIOLOGY)
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

IMPLOSIONS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

IMPREGNATING
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908

IMPULSE GENERATORS
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14726

IMPURITIES
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

IN-FLIGHT MONITORING
System for use in conducting wake investigation for a wing in flight — differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

INCIDENCE
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

INCIDENT RADIATION
Solar cell assembly — for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

INCLINATION
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

INCOHERENT SCATTERING
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20659

INDICATING INSTRUMENTS
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Apparatus for the determination of the existance or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26626
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756

INDIUM ALLOYS
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-29821

INDIUM COMPOUNDS
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

INDUCTANCE
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455

INDUCTION
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11398-1] c 35 N90-22023

INDUCTION HEATING
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267

INDUCTION MOTORS

Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

INDUCTION MOTORS

Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS

Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N90-27042

INDUSTRIAL PLANTS

Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

INDUSTRIAL WASTES

Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

INERT ATMOSPHERE

Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA

Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

INERTIAL CONFINEMENT FUSION

Method and apparatus for producing gas-filled hollow spheres — target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31996
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16040

INERTIAL GUIDANCE

Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

INERTIAL NAVIGATION

Autonomous navigation system — gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

INERTIAL PLATFORMS

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Temperature compensated digital inertial sensor — circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Attitude control system
[NASA-CASE-MFS-22767-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

INERTIAL REFERENCE SYSTEMS

Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16099

INFLATABLE SPACECRAFT

Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17667
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-26851

INFLATABLE STRUCTURES

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39961
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Pressure control valve — inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11066-1] c 35 N84-12443
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

INFORMATION RETRIEVAL

Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131

INFRARED DETECTORS

Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-28796
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329

INFRARED INSTRUMENTS

Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

INFRARED INTERFEROMETERS

Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

INFRARED LASERS

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Thermal compensator for closed-cycle helium refrigerator — assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12166-1] c 31 N79-17029

INFRARED PHOTOMETRY

Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

INFRARED RADIATION

High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

INFRARED REFLECTION

Electromagnetic radiation energy arrangement — coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

INFRARED SCANNERS

Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

INFRARED SPECTRA

Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048

INFRARED SPECTROMETERS

Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Cooled echelle grating spectrometer — for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRARED TELESCOPES

Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

INFRASONIC FREQUENCIES

Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

INHIBITORS

Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

INITIATORS (EXPLOSIVES)

Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Four-terminal electrical testing device — initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

INJECTION

Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTION LASERS

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15990-1] c 36 N85-30305

INJECTORS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130

INKS
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-26915
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

INLET NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

INLET PRESSURE
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

INORGANIC COATINGS
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03966] c 15 N71-21403
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES
Analog to digital converter
[NASA-CASE-NPO-13365-1] c 33 N76-18345

INSERTION
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

INSPECTION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

INSTALLING
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11066-1] c 35 N84-12443

INSTRUMENT COMPENSATION
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

INSULATED STRUCTURES
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-06882] c 15 N69-39935

INSULATION
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10036] c 15 N72-20444
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

INSULATORS
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

INTAKE SYSTEMS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

INTEGERS
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21171

INTEGRATED CIRCUITS
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10178-1] c 15 N72-21464
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-25670-1] c 33 N84-22884
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
Universal nondestructive MM-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N90-17009

INTEGRATORS
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10807] c 10 N71-23669
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INTEGRITY
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

INTERFACES
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28956
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444

INTERFACIAL TENSION
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

INTERFERENCE FIT
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

INTERFEROMETERS
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
High resolution Fourier interferometer spectrophotonolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13589-2] c 35 N79-14348
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Optical gyroscope system
[NASA-CASE-NPO-14256-1] c 35 N81-33448
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

INTERFEROMETRY
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

INTERLAYERS
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

INTERMEDIATE FREQUENCY AMPLIFIERS
Multichannel logarithmic FF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

INTERMETALLICS
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482

INTERNAL COMBUSTION ENGINES
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14056
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-16457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

INTERPLANETARY SPACE
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

INTERPLANETARY SPACECRAFT
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

INTERPLANETARY TRAJECTORIES
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

INTERVALS
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

INTRACRANIAL PRESSURE
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

INTRAOCULAR PRESSURE
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

INTRAVEHICULAR ACTIVITY
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

INTRAVENOUS PROCEDURES
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577

INTRUSION
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

INVENTIONS
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

INVERTED CONVERTERS (DC TO AC)
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

INVERTERS
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INVESTIGATION
Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N86-14835

IODINE
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

IODINE COMPOUNDS
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

IODINE ISOTOPES
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

ION ACCELERATORS
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-26582
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

ION BEAMS
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 26 N71-26173
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

ION CHARGE

Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

ION CONCENTRATION

Deposition of alloy films — on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

ION CURRENTS

System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ION CYCLOTRON RADIATION

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

ION DENSITY (CONCENTRATION)

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ION ENGINES

Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-30889
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15861
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Single grid accelerator for an ion thrustor
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ION EXCHANGE MEMBRANE ELECTROLYTES

Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21208
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Dialysis system — using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

ION EXCHANGING

Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

ION EXTRACTION

Apparatus for extraction and separation of a preferentially photo-disaociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12485-1] c 25 N78-25148
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

ION IMPLANTATION

Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

ION IRRADIATION

Modification of the electrical and optical properties of polymers — ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

ION MOTION

Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-26016

ION PLATING

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES

Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-29863

ION PROPULSION

Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00823] c 28 N70-36802
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Ion beam deflector Patent
[NASA-CASE-LEW-10669-1] c 28 N71-26173
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

ION PUMPS

Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13863-1] c 35 N77-14406

ION SOURCES

Focusing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19884
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27183
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

ION TRAPS (INSTRUMENTATION)

Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

IONIC MOBILITY

Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

IONIZATION

Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21398

IONIZATION CHAMBERS

Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41981
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27080
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

IONIZATION CROSS SECTIONS

Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

IONIZATION GAGES

Ionization vacuum gauge Patent
[NASA-CASE-XNP-00648] c 14 N70-35606
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30381

IONIZATION POTENTIALS

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-28678
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

IONIZED GASES

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLF-00690] c 25 N69-39884
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15841

Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

IONIZERS
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

IONIZING RADIATION
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N80-21198

IONOSPHERIC DISTURBANCES
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC ELECTRON DENSITY
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC SOUNDING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONS
Micrometeroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

IRIDIUM
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

IRON ALLOYS
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N79-18182
Process for making a high toughness-high strength iron alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Thermal barrier coating system
[NASA-CASE-LEW-14067-1] c 24 N85-35233

IRON CHLORIDES
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-26205

IRON COMPOUNDS
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-18074-1] c 27 N80-26446
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269

IRRIGATION
Solar-powered pump
[NASA-CASE-NPO-13587-1] c 44 N76-29701

ISOLATION
High voltage isolation transformer
[NASA-CASE-GSC-12917-1] c 33 N85-29146
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17798-1-CU] c 35 N90-17104

ISOLATORS
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

ISOPROPYL ALCOHOL
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOTHERMAL LAYERS
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27386

ISOTOPE SEPARATION
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

J

JET AIRCRAFT
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00368] c 28 N70-34798
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

JET AIRCRAFT NOISE
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

JET AMPLIFIERS
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-26741

JET BLAST EFFECTS
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

JET CONTROL
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36939

JET ENGINES
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-0284-] c 28 N71-15563
Thrust dynamometer Patent
[NASA-CASE-XLE-05280] c 14 N71-20429
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Wrecking blades to cocurs
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
The engine air intake system
[NASA-CASE-ARC-10791-1] c 07 N77-19154
Elastic rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33403
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

JET EXHAUST
Jet exhaust noise suppressor
[NASA-CASE-LEW-11296-1] c 07 N74-27490
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

JET FLAPS
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

JET FLOW
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25282
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254

JET MIXING FLOW
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-36199

JET NOZZLES
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

JET PROPULSION
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11819-1] c 07 N78-27121

JET PUMPS
Jet pump-drive system for heat removal
[NASA-CASE-NPO-18494-1-CU] c 34 N85-29182

JET THRUST
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

JETTISON SYSTEMS
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03160] c 31 N71-15875
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10690-1] c 31 N73-14853
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

JIGS
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11485-1] c 37 N76-21554
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447

JOINING
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

JOINTS (ANATOMY)
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10907-1] c 05 N71-11195
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21311-1] c 54 N75-12616
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Spacesuit mobility knee joints
[NASA-CASE-ARC-11056-2] c 54 N79-24651

JOINTS (JUNCTIONS)
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Frictionless universal joint Patent
[NASA-CASE-NPO-10848] c 15 N71-26467
Spherical shield Patent
[NASA-CASE-XNP-01868] c 15 N71-26937
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28861

Diffusion welding in air — solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
Bonded joint and method — for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32548
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Method of determining bond quality of power transistors attached to substrates — X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N78-14490
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Thermal barrier pressure seal — shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26873
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Self-locking mechanical center joint
[NASA-CASE-LAR-12964-1] c 37 N85-30336
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Fluid leak indicator
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[NASA-CASE-LEW-14785-1] c 74 N90-15733

LASER PLASMAS
Continuous plasma laser — method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

LASER POWER BEAMING
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

LASER PUMPING
Laser apparatus
[NASA-CASE-GSC-12037-1] c 36 N80-14384
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12582-1] c 36 N82-13415
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

LASER RANGE FINDERS
Laser measuring system for incremental assemblies — measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24858

LASER RANGER/TRACKER
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

LASER SPECTROMETERS
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

LASER SPECTROSCOPY
Stark effect spectrophone for continuous absorption spectra monitoring — a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

LASER WINDOWS
Optical scanner — laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N79-17966

LASERS
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Short range laser obstacle detector — for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28348
Method and apparatus for splitting a beam of energy — optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32948
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12207-1] c 37 N79-26549
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Off-axis coherently pumped laser
[NASA-CASE-GSC-12982-1] c 36 N84-28065
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340

LASING
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N89-24732

LATCHES
Despin weight release Patent
[NASA-CASE-XLA-00979] c 15 N70-39801
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17049
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27803
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19895
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Low temperature latching solenoid
[NASA-CASE-MSC-19106-1] c 39 N82-11357
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Self indexing latch system
[NASA-CASE-MFS-25996-1] c 37 N87-21373
Preloadable vector sensitive latch
[NASA-CASE-MSC-20810-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24989
Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17139

LATERAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41681
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
High speed flight vehicle control Patent
[NASA-CASE-XLA-06967] c 02 N71-27088
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14106
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19865
Swashplate control system
[NASA-CASE-ARC-11833-1] c 08 N87-23831

LATERAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LATEX
Molten salt pyrolysis of latex — synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

LATHES
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04262] c 15 N71-22722
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-26831

LAUNCH ESCAPE SYSTEMS
Emergency escape system Patent
[NASA-CASE-XNS-02342] c 05 N71-11199
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20716

LAUNCH VEHICLE CONFIGURATIONS
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10879-1] c 08 N77-19076

LAUNCH VEHICLES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Method and apparatus for detection and location of microseisms Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 16 N84-27797
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

LAUNCHERS
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
LAUNCHING PADS
Missile launch release system Patent
[NASA-CASE-XMF-03188] c 30 N70-40353
Remote-controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
LAY-UP
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33226
LAYERS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12061-1] c 28 N79-24365
LEACHING
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14108-1] c 28 N80-23471
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
LEAD (METAL)
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N78-27984
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35339
LEAD SULFIDES
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12792-1] c 33 N88-14271
LEAD TELLURIDES
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39798
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 18 N71-16037
LEADING EDGE FLAPS
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12767-2] c 08 N85-19885
LEADING EDGES
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
LEAKAGE
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02362] c 32 N71-24285
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26872
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-29992
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-10801
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21205
Carbon granule probe microphone for leak detection — recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21567
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21601
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
LEAST SQUARES METHOD
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
LEG (ANATOMY)
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10818-1] c 52 N78-10686
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
LENSES
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-13622
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-13700] c 23 N71-30027
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11988
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32479
Process for producing a well-adhered durable optical coating on an optical plastic substrate — abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N79-32554
Chromatically corrected virtual image visual display — reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12309-1] c 36 N82-32712
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
LENTICULAR BODIES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00350] c 31 N70-37924
LESIONS
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
LEVEL (HORIZONTAL)
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 33 N71-17602
Rotary leveling base platform
[NASA-CASE-ARC-1-981-1] c 37 N78-[illegible]
LEVEL (QUANTITY)
Spherical tank gauge Patent
[NASA-CASE-XMS-06238] c 14 N71-21007
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
LEVELING
Adjustable altitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-19571
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Adjustable support
[NASA-CASE-NPO-10721] c 13 N73-27484
Automatically operable self-leveling load table
[NASA-CASE-MFS-23039-1] c 09 N75-12988
LEVITATION
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24829
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15933-1] c 33 N85-29142
LEVITATION MELTING
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22106
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17409-1-CU] c 29 N87-29469
LIFE (DURABILITY)
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15830-1] c 76 N83-35869
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12662-1] c 52 N84-34913
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14879-1] c 27 N89-29651
LIFE DETECTORS
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05530] c 04 N69-27487
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
LIFE RAFTS
Life raft Patent
[NASA-CASE-XMS-00660] c 05 N70-34857
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
LIFE SUPPORT SYSTEMS
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-29851
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-29933
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Air removal device
[NASA-CASE-XLA-08014] c 15 N73-12492
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10581-1] c 25 N74-12813
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17990
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Air removal device — life support systems
[NASA-CASE-XLA-08914-2] c 26 N82-21259
Support extra-vehicular access facility
[NASA-CASE-ARC-11639-1] c 18 N90-16860
LIFT
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
LIFT DEVICES
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00380] c 31 N70-34176
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Ferry system
[NASA-CASE-LAR-10974-1] c 11 N73-13257
High lift aircraft — with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22396
Vortex-lift roll-control device
[NASA-CASE-LAR-11988-2] c 08 N79-14108
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
LIFT DRAG RATIO
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N80-26877
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16826
LIFTING BODIES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00380] c 31 N70-34176
Lifting body Patent Application
[NASA-CASE-FRC-10083] c 01 N71-12217

Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264

LIFTING REENTRY VEHICLES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03891] c 31 N71-19674
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-19087

LIFTING ROTORS
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

LIGANDS
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

LIGHT (VISIBLE RADIATION)
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

LIGHT AIRCRAFT
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110

LIGHT BEAMS
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-06269] c 23 N71-26206
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34829
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
Laser schlieren crystal monitor
[NASA-CASE-MFS-29060-1] c 76 N87-21862

LIGHT EMISSION
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

LIGHT EMITTING DIODES
Photoelectric detection system — manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-26545
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-26796
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733

LIGHT GAS GUNS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18678

LIGHT MODULATION
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19470
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Lamp modulator
[NASA-CASE-KSC-10585] c 09 N72-25250
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N75-30053
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14624-1] c 32 N80-24510
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17812-1-CU] c 74 N90-27487

LIGHT SCATTERING
The 2 deg/90 deg laboratory scattering photometer — particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

LIGHT SCATTERING METERS
System for the measurement of ultra-low stray light levels — determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

LIGHT SOURCES
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03890] c 14 N69-24331
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Attitude sensor
[NASA-CASE-LAR-10586-1] c 18 N74-15089
Very high intensity light source using a cathode ray tube — electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10296-1] c 33 N75-29019
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941

LIGHT TRANSMISSION
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15585
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08640] c 23 N71-16365
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23895
Light regulator
[NASA-CASE-LAR-10808-1] c 26 N72-27764
Transmitting and reflecting diffuser — for ultraviolet light
[NASA-CASE-LAR-10395-2] c 70 N74-13436
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10878-1] c 74 N77-22950
Transmitting and reflecting diffuser — using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10395-3] c 74 N79-15879
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N89-25304
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191

LIGHT VALVES
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33626
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LIGHTING EQUIPMENT
Internal work light Patent
[NASA-CASE-XKS-05032] c 09 N71-26767
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315

LIGHTNING
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26248
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N86-14063

LIMBS (ANATOMY)
Prostheses coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27579

LIMITER CIRCUITS
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

LINE SPECTRA
Stark cell optoacoustic detection of constituent gases in aerosols
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679

LINEAR ACCELERATORS
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

LINEAR ARRAYS
Multispectral imaging and analysis system — using charge coupled devices and linear arrays
[NASA-CASE-NPO-13681-1] c 43 N79-17288
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

LINEAR CIRCUITS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-23995

LINEAR INTEGRATED CIRCUITS
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28580

LINEAR POLARIZATION
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17813-1-CU] c 74 N90-27488

LINEAR PROGRAMMING
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-23995

LINEAR RECEIVERS
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

LINEAR SYSTEMS
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11668] c 10 N73-20254
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

LINEARITY
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32987
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-25254
Instrumentation for sensing moisture content of materials using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-29657

LININGS
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13298-1] c 27 N82-29453
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21062-1] c 27 N87-29672
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586

LINKAGES
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Locking, redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Payload deployment method and system
[NASA-CASE-MSC-21300-1] c 18 N88-24660
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

LIQUEFACTION
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION
Constant-output atomizer — inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

LIQUID BEARINGS
High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32360
Turbomachinery rotor support with damping
[NASA-CASE-MFS-25345-1] c 37 N89-25841

LIQUID CHROMATOGRAPHY
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

LIQUID COOLING
Wear cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Solenoid construction Patent
[NASA-CASE-XNP-01991] c 09 N70-41929
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17831
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27982
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15090
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10580-1] c 06 N73-26071
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Closed loop spray cooling apparatus — for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Low gravity isothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

LIQUID CRYSTALS
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25990
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12151

LIQUID FILLED SHELLS
Liquid rocket system Patent
[NASA-CASE-XNP-05810] c 28 N70-39010
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24805
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-36085

LIQUID FLOW
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39980
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10662] c 15 N70-34699
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00367] c 15 N70-36492
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41894
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Ablative system
[NASA-CASE-LEW-10358-2] c 39 N73-25952
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10628] c 14 N73-27378
System for measuring Reynolds in a turbulently flowing fluid — signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Degassifying and mixing apparatus for liquids — potable water for spacecraft
[NASA-CASE-MSC-18906-1] c 35 N83-29652
Multicolor printing plate joining
[NASA-CASE-LEW-13586-1] c 35 N84-22930

LIQUID HELIUM
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14264
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13458-1] c 31 N77-10029
Multistation refrigeration system
[NASA-CASE-NPO-13836-1] c 31 N78-25256
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Low cost cryostat
[NASA-CASE-NPO-14813-1] c 35 N81-14287

LIQUID HYDROGEN
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05048] c 33 N71-28692
Reinforced polyquinoxaline gasket and method of preparing the same — resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21384-1] c 37 N74-18126
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

LIQUID INJECTION
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01183] c 21 N71-15582
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15880
Sodium storage and injection system
[NASA-CASE-NPO-14364-1] c 37 N80-10494
Method of producing silicon — gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14009-1] c 34 N85-33433

LIQUID LASERS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

LIQUID LEVELS
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01669] c 14 N71-10500

LIQUID METALS
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39963
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00844] c 03 N70-36803
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27982
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Shell side liquid metal boiler
[NASA-CASE-NPO-10691] c 33 N72-29815
Method for distillation of liquids
[NASA-CASE-XNP-09134-2] c 06 N73-13129
Electromagnetic flow rate meter — for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13826-1] c 24 N85-30027

LIQUID NITROGEN
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

LIQUID OXYGEN
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 19 N71-27170
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

LIQUID PHASES
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15835
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07859] c 06 N71-22975
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-29083-1-CU] c 26 N90-26940

LIQUID PROPELLANT ROCKET ENGINES
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00079] c 28 N70-33254
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00186] c 21 N70-34539
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-39710
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Supersonic-combustion rocket
[NASA-CASE-LEW-11068-1] c 20 N74-13502
Space vehicle
[NASA-CASE-MFS-32734-1] c 18 N75-19329
Fluid thrust control system — for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
Rocket injector head
[NASA-CASE-XMF-04382-1] c 20 N79-21125
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-16314

LIQUID ROCKET PROPELLANTS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-38925
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41946
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01898] c 31 N70-41948
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15835
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-06702] c 15 N71-17654
Slosh alleviator Patent
[NASA-CASE-XLA-06749] c 15 N71-19589
Filter valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14166

Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N88-15130
Methods and apparatus for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N90-26073

LIQUID SLOSHING
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10017-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04905] c 32 N71-16106
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17902
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19589
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05841] c 12 N71-26387

LIQUID SODIUM
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

LIQUID-GAS MIXTURES
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41287
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41640
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device — life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269

LIQUID-SOLID INTERFACES
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13587-1-CU] c 25 N87-23713

LIQUID-VAPOR INTERFACES
Zero gravity separator Patent
[NASA-CASE-XLE-00588] c 15 N71-15988
Rotating shaft seal Patent
[NASA-CASE-XNP-02962-1] c 15 N71-26294
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

LIQUIDS
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19810
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02503] c 18 N71-27397
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11647-1] c 14 N72-11383
Ablative system
[NASA-CASE-LEW-10389] c 33 N72-25911
Liquid waste feed system
[NASA-CASE-LAR-10385-1] c 05 N72-27102
Zero gravity liquid mover
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Bimetallic fluid displacement apparatus — for storing and feeding stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15129
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19111
Thermal energy storage system — operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31367
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N79-12390
Automatic fluid dispenser
[NASA-CASE-ARC-10920-1] c 35 N79-19466
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12485-1] c 33 N82-26572
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
Tank gauging apparatus and method
[NASA-CASE-MSC-21058-1] c 35 N89-12843

LITHIUM
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32975
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17252-1-CU] c 36 N89-12856

LITHIUM ALLOYS
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Aluminum alloy
[NASA-CASE-LAR-13804-1-CU] c 26 N89-28621

LITHIUM COMPOUNDS
Novel polymers and method of preparing same
[NASA-CASE-NPO-10898-1] c 06 N73-32029

LOAD DISTRIBUTION (FORCES)
Force measuring instrument Patent
[NASA-CASE-XMF-00458] c 14 N70-34705
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-36225
Device for use in loading tension members — characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27529

LOAD TESTING MACHINES
Load cell protection device Patent
[NASA-CASE-XMS-08782] c 32 N71-19974
Load relieving device Patent
[NASA-CASE-XMS-08329-1] c 15 N71-20441
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-19400
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25810-1] c 39 N88-20841
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N89-26584
Fully articulated four-point bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

LOAD TESTS
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25801

LOADING OPERATIONS
Air bearing Patent
[NASA-CASE-XMF-01687] c 15 N71-10617
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

LOADS (FORCES)
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27458
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34913
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02980] c 15 N71-16052
Load relieving device Patent
[NASA-CASE-XMS-08329-1] c 15 N71-20441
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05690] c 09 N71-23191
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-29031
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10965-1] c 10 N71-27135
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28859
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17431
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25289
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13483
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Three-axis adjustable loading structure
[NASA-CASE-FRC-10951-1] c 35 N74-13129
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-19417
Penetrometer — for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 38 N77-27387
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-21047
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 39 N85-34375
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N90-15442
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
Power saw
[NASA-CASE-MSC-21469-1] c 37 N90-26340

LOCAL AREA NETWORKS
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19770

LOCATES SYSTEM
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Position determination systems — using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

LOCKING
Coupling device
[NASA-CASE-XMS-07946-1] c 09 N80-21927
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30338
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20799
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11810-1] c 54 N86-28619
Locking hinge
[NASA-CASE-MSC-21096-1] c 18 N89-23827
Rotary control lock
[NASA-CASE-NPO-17453-1-CU] c 37 N89-13797
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N90-27111

LOCKS (FASTENERS)
Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28828
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10688] c 14 N71-28835
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11386
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Portable appliance security apparatus
[NASA-CASE-GSC-12398-1] c 10 N81-25269
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-19529-1] c 37 N82-24494
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Rotary control lock
[NASA-CASE-NPO-17453-1-CU] c 37 N89-13797

LOCOMOTION
Jet shoes
[NASA-CASE-XLA-08401] c 05 N85-21350
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10741
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Kinesimetric method and apparatus
[NASA-CASE-MSC-19629-1] c 39 N83-20260

LOGARITHMIC RECEIVERS
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N79-32339

LOGARITHMS
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10287] c 09 N72-23173

LOGIC CIRCUITS
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11149
Relay tenary circuit Patent
[NASA-CASE-XMF-05421] c 09 N70-34602

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35429
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04787] c 08 N71-12494
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-05823] c 10 N71-15810
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04798] c 08 N71-18602
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Stepping motor control circuit Patent
[NASA-CASE-GSC-10066-1] c 10 N71-18772
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24850
BCD to decimal decoder Patent
[NASA-CASE-XRS-08187] c 08 N71-24890
Current steering switch Patent
[NASA-CASE-XNP-08587] c 09 N71-26000
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04823] c 10 N71-26103
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
Fast response low power drain logic circuits
[NASA-CASE-GSC-10679-1] c 10 N73-22206
Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209
A synchronous binary array divider
[NASA-CASE-ERC-10160-1] c 60 N74-20836
Four phase logic systems — including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Inbe-tapping device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Logic-controlled exclusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25206-1] c 33 N83-10345
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Braille reading system
[NASA-CASE-LAR-13306-1] c 60 N87-29372
Nanosequencer digital logic controller
[NASA-CASE-NPO-16119-2] c 60 N88-29310
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 82 N89-29976
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23836

LOGIC PROGRAMMING

VLSI binary up/down counter
[NASA-CASE-NPO-17269-1-CU] c 60 N90-21525

LONGERONS

Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13109-1] c 37 N88-25791
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25998-1] c 18 N86-26352
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

LONGITUDINAL CONTROL

Three-axis controller Patent
[NASA-CASE-XAC-01404] c 08 N70-41581
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12582-1] c 08 N81-26152
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13178-1] c 08 N87-14314
Swashplate control system
[NASA-CASE-ARC-11933-1] c 08 N87-23831

LONGITUDINAL STABILITY

Annular wing
[NASA-CASE-FRC-11067-2] c 05 N82-26277

LOOK ANGLES (ELECTRONICS)

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15829-1] c 43 N86-19711

LOOP ANTENNAS

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XNF-00437] c 07 N70-40202
Automatic carrier acquisition system
[NASA-CASE-NPO-11629-1] c 07 N73-30113

LOOPS

Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41847
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
High speed shutter — electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Means for accommodating large overstrain in lead wires — by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22985
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Pseudonoise code tracking loop
[NASA-CASE-MSC-18005-1] c 32 N81-15179
Pulsed phase locked loop strain monitor — voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-18626
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20641-1] c 34 N87-22950
Phase length optical phase-locked loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

LOUVERS

Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-26204

LOW ASPECT RATIO

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-07142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00606] c 02 N70-34858

LOW CONDUCTIVITY

High temperature insulation barrier composite
[NASA-CASE-MFS-25241-1] c 24 N90-23480

LOW COST

Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28605
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-13033-2] c 44 N78-24809
Large TV display system
[NASA-CASE-NPO-16932-1-CU] c 33 N87-15413
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10809

LOW CURRENTS

Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

LOW DENSITY MATERIALS

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-29993
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
Low density bismaleimide-carbon microballoon composites — aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Catalysis for polyimide foams from aromatic isocyanates and aromatic dianhydrides — flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13833-1] c 26 N87-29650

LOW FREQUENCIES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

LOW GRAVITY MANUFACTURING

Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12811-1] c 12 N75-15189
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 38 N83-24829
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25243-1] c 36 N83-29650
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

LOW MOLECULAR WEIGHTS

Process for preparation of high-molecular- weight polyarylorysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807

LOW NOISE

Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Reflected-wave maser — low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N78-31512
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22987
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N89-26596

LOW PASS FILTERS

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-13215-1] c 08 N79-23097
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29639
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17626-1-CU] c 32 N89-29684

LOW PRESSURE

Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10622] c 12 N71-26546
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

LOW SPEED

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15574
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24860

LOW TEMPERATURE

Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12261-3] c 26 N81-14102
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N86-23894

LOW TEMPERATURE ENVIRONMENTS

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

LOW TEMPERATURE TESTS

Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02984] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24734
Heating and cooling system — for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34321

LOW THRUST

Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

LOW VACUUM

Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673

LOW VOLTAGE

High speed low level electrical shipping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39015
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366

LOWER BODY NEGATIVE PRESSURE

Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-10803

LUBRICANTS

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01760] c 19 N71-10772
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10937] c 15 N71-24048
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Thiophenyl ether dialkoxanes and trialkoxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
Journal bearings — for lubricant films
[NASA-CASE-LEW-11078-1] c 37 N74-21061
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27054

LUBRICATING OILS

Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570

LUBRICATION
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Variable resistance constant tension and lubrication device — using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15481
LUBRICATION SYSTEMS
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01841] c 15 N71-22997
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N76-10467
LUGS
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13880
LUMINAIRES
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27496
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Lamp modulator
[NASA-CASE-KSC-10585] c 09 N72-25250
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
LUMINANCE
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
LUMINOSITY
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
LUMINOUS INTENSITY
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Radiant energy intensity measurment system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
Continuous plasma laser — method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04187-3] c 36 N77-10416
Solar cell assembly — for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
System for the measurement of ultra-low stray light levels — determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
LUMPING
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
LUNAR BASES
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29040
LUNAR COMMUNICATION
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07198] c 07 N71-11300
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
LUNAR COMPOSITION
Lunar penetrometer Patent
[NASA-CASE-XLA-00604] c 14 N71-22788
LUNAR EXPLORATION
Backpack carrier Patent
[NASA-CASE-LAR-10058] c 35 N71-12351
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22785
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
LUNAR GRAVITATION
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
LUNAR GRAVITY SIMULATOR
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
LUNAR LANDING
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00609] c 31 N70-34966
LUNAR LOGISTICS
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
LUNAR ROCKS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
LUNAR SOIL
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
LUNAR SURFACE VEHICLES
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-19811
Resilient wheel Patent
[NASA-CASE-MFS-13629] c 15 N71-27091
LUNGS
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M

MACH NUMBER
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11089
MACHINE LEARNING
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17903-1-CU] c 62 N90-27395
MACHINE TOOLS
Rock drill for recovering samples
[NASA-CASE-XNP-07479] c 14 N69-21923
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23917
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-25145
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26873
Caterpillar micro positioner
[NASA-CASE-GSC-10790-1] c 14 N72-16283
Geneva mechanism — including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
Zero torque gear head wrench
[NASA-CASE-NPO-13069-1] c 37 N76-20480
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12074-1] c 37 N79-28550
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12819-1] c 37 N84-12491
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-29001-2] c 37 N86-14380
MACHINERY
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Precipitation detector Patent
[NASA-CASE-XLA-02819] c 10 N71-26334
Apparatus for forming drive belts
[NASA-CASE-NPO-13265-1] c 31 N74-32917
MACHINING
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11935-1] c 37 N75-31446
MAGNESIUM
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27448
MAGNESIUM ALLOYS
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01252] c 15 N71-21404
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
MAGNESIUM OXIDES
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
MAGNET COILS
Superconducting alternator
[NASA-CASE-XLE-02924] c 03 N69-39090
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29009
MAGNETIC AMPLIFIERS
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14817-1] c 33 N81-24338
MAGNETIC BEARINGS
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N80-32067
Linear magnetic bearings
[NASA-CASE-GSC-12562-2] c 37 N85-20007
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
MAGNETIC CHARGE DENSITY
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
MAGNETIC CIRCUITS
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
MAGNETIC COILS
Time-division multiplexer Patent
[NASA-CASE-XNP-00401] c 09 N70-38988
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17052
Safe-arm initiator Patent
[NASA-CASE-LAR-10373] c 09 N71-18599
Magnifying image intensifier
[NASA-CASE-GSC-12510-1] c 74 N79-18905
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
MAGNETIC CONTROL
Fast opening diaphragm Patent
[NASA-CASE-XLA-03680] c 15 N71-21060
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29194
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18409
Magnetic bearing system
[NASA-CASE-GSC-11979-1] c 37 N77-17464
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
MAGNETIC CORES
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38860
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Magnetic counter Patent
[NASA-CASE-XNP-08838] c 09 N71-12515
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03003] c 09 N71-18595
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 09 N71-19594
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01319] c 10 N71-23033
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24930
Magnetic power switch Patent
[NASA-CASE-NPO-10942] c 09 N71-24933
Unsaturating saturable core transformer Patent
[NASA-CASE-ARC-10120] c 09 N71-24953
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 09 N71-26525
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10039] c 23 N72-17167
Current steering commutator
[NASA-CASE-NPO-10743] c 09 N72-21189
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17009
MAGNETIC DIPOLES
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
MAGNETIC DISKS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10736-1] c 15 N70-26819

MAGNETIC FIELD CONFIGURATIONS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13883-1] c 35 N77-14408
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-16805
MAGNETIC FIELDS
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41840
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15062
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16089
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28654
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01186] c 26 N73-28710
Electron beam controller — using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10196
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N78-16380
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17306
Atomic hydrogen storage — cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-25402
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23629-1] c 33 N82-26599
Magnetic heading reference
[NASA-CASE-LAR-12630-1] c 04 N84-14132
Magentically actuated compressor
[NASA-CASE-GSC-12709-1] c 31 N85-21404
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Maser cavity servo-tuning system
[NASA-CASE-NPO-15680-1-CU] c 33 N85-29143
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N89-23973
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12666
MAGNETIC FILMS
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11338-1] c 76 N79-10679
MAGNETIC FLUX
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24309
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01841] c 15 N71-22907
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetic bearing — for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18674
Linear magnetic motor/generator — to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32087
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29063
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12567-1] c 37 N87-11008
MAGNETIC FORMING
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24980
MAGNETIC INDUCTION
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Drive circuit for minimizing power consumption of inductive load Patent
[NASA-CASE-NPO-10718] c 09 N71-24992
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15230
High speed shutter — electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
MAGNETIC LENSES
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
MAGNETIC MATERIALS
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17369-1-CU] c 76 N80-14120
MAGNETIC MEASUREMENT
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15062
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N78-16380
MAGNETIC PERMEABILITY
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N83-29094
MAGNETIC POLES
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13883-1] c 35 N77-14408
MAGNETIC PUMPING
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetoacoustic pump — for cryogenic fluids
[NASA-CASE-LEW-11872-1] c 37 N74-27934
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29825
MAGNETIC RECORDING
Incrementar tape recorder and data rate converter Patent
[NASA-CASE-XNP-02178] c 09 N71-22710
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10667-1] c 09 N71-27210
Thermomagnetic recording and magneto-optic playback system
[NASA-CASE-NPO-10670-1] c 35 N79-16246
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11338-1] c 76 N79-10679
MAGNETIC SIGNALS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
MAGNETIC STORAGE
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 09 N70-34743
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 09 N71-12504
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-28418
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Dual purpose momentum wheels for spacecraft with magnetic recorder
[NASA-CASE-GSC-11481] c 21 N73-13644
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24366
MAGNETIC SUSPENSION
Magnetic suspension and pointing system
[NASA-CASE-LAR-11989-2] c 37 N78-27424
Magnetic suspension and pointing system — on a carrier vehicle
[NASA-CASE-LAR-11989-1] c 35 N79-28372
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N86-15442
MAGNETIC SWITCHING
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Current steering switch Patent
[NASA-CASE-XNP-09587] c 09 N71-26600
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24462
MAGNETIC TAPE TRANSPORTS
Reel servo brake
[NASA-CASE-GSC-11960-1] c 37 N77-14470
MAGNETIC TAPES
Endless tape cartridge Patent
[NASA-CASE-XGS-00799] c 14 N70-41047
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15670
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 09 N71-21042
Friction measuring apparatus Patent
[NASA-CASE-XNP-09580] c 14 N71-22665
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
Automatic character skew and spacing checking network — of digital tape drive systems
[NASA-CASE-GSC-11625-1] c 33 N78-18353
Braille reading system
[NASA-CASE-LAR-13336-1] c 52 N87-28372
MAGNETIC TRANSDUCERS
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N79-32387
MAGNETIZATION
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-05542] c 28 N71-23293
MAGNETO-OPTICS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
MAGNETOACOUSTIC WAVES
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N86-21170
MAGNETOHYDRODYNAMIC FLOW
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25780
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
MAGNETOHYDRODYNAMIC GENERATORS
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39883
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15582
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12485-1] c 44 N83-28573

MAGNETOMETERS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03798] c 09 N79-21313
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01681] c 09 N70-40123
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-28135
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27205
Hall effect magnetometer
[NASA-CASE-LEW-11602-2] c 35 N75-13213
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13386-1] c 35 N76-16350
Magnetic heading reference
[NASA-CASE-LAR-11367-1] c 04 N76-20114
Magnetic heading reference
[NASA-CASE-LAR-11367-2] c 04 N77-19056
Magnetometer with a miniature transducer and automatic sciencing
[NASA-CASE-LAR-11917-2] c 35 N79-32397
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12708-1] c 35 N84-12444
MAGNETRON SPUTTERING
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16881-1-CU] c 76 N88-24543
MAGNETRONS
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-08771] c 09 N71-24841
MAGNETS
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14304-1] c 72 N80-27160
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32087
Shaft transducer having dc output proportional to angular v[illegible]city
[NASA-CASE-NPO-15706-1] c 35 N84-29017
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
MAGNIFICATION
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03846-1] c 14 N71-28474
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Magnifying image intensifier
[NASA-CASE-GSC-12610-1] c 74 N79-19905
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25944-1] c 74 N86-20124
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-2] c 89 N90-27094
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 90 N90-27095
MAGNITUDE
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
MAINTENANCE
Self testing and repairing computer Patent
[NASA-CASE-NPO-10987] c 08 N71-24633
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12469
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10419-1] c 24 N74-30001
System and method for refurbishing and processing parachutes — monorail conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-28073
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24039
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-28030
Method for repair of thin glass coatings — on space shuttle orbiter tiles
[NASA-CASE-KSC-11087-1] c 27 N82-33526
Method of repairing surface damage to porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32735
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771
MALEATES
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11429-1] c 23 N86-18378
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11429-2] c 27 N87-19909
MALFUNCTIONS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00180] c 14 N70-36807
MAMMALS
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
MANAGEMENT METHODS
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21485-1] c 61 N90-18410
MANDRELS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00004] c 27 N70-34783
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-29779
MANEUVERABILITY
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13099-1] c 31 N86-19479
MANGANESE
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11339-1] c 76 N79-16578
MANIFOLDS
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12936-1] c 07 N82-32366
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Encanded temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N86-15130
MANIPULATORS
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28405
Orthotic arm joint — for use in mechanical arms
[NASA-CASE-MFS-21911-1] c 04 N75-12810
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Cooperative multiarm sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13396-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Compact artificial hand
[NASA-CASE-NPO-13806-1] c 54 N79-24652
Controller arm for a remotely roboted slave arm
[NASA-CASE-ARC-11092-1] c 37 N79-28651
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14220
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26716
Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27510
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23948-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29296
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13099-1] c 31 N86-19479
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-25799
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25988-1] c 18 N86-31252
Orbital maneuvering end effectors
[NASA-CASE-MFS-28191-1] c 37 N87-19917
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23029
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-28205
Space station erectable manipulator (deployment system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12642
Magnetic attachment mechanism
[NASA-CASE-MSC-21088-1] c 37 N89-12666
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17780-1-CU] c 37 N89-29946
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Gripping device
[NASA-CASE-MSC-21388-1] c 37 N90-20409
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110
MANNED ORBITAL LABORATORIES
Erectable modular space station Patent
[NASA-CASE-XLA-00676] c 31 N70-34296
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
MANNED SPACE FLIGHT
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Air removal device
[NASA-CASE-XLA-09814] c 15 N73-12492
MANNED SPACECRAFT
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37939
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00108] c 02 N70-38659
Space capsule Patent
[NASA-CASE-XLA-01302] c 31 N71-10864
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02508] c 31 N71-21881
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28833
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11083
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
Hatch cover
[NASA-CASE-MSC-21398-1] c 18 N89-10279
MANOMETERS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-09830] c 14 N73-34820
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10998] c 14 N73-33394
MANUAL CONTROL
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15409
Null device for hand controller Patent
[NASA-CASE-XLA-01909] c 10 N71-20742
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[NASA-CASE-NPO-10877] c 05 N72-11084
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[NASA-CASE-NPO-11497] c 09 N73-25208
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[NASA-CASE-MSC-12394-1] c 08 N74-10942
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[NASA-CASE-ARC-10836-1] c 35 N77-29381
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[NASA-CASE-LAR-12412-1] c 08 N82-24205
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[NASA-CASE-ERC-10670] c 09 N70-11149
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[NASA-CASE-XNP-04339] c 17 N71-29137
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Aluminium or copper substrate panel for selective absorption of solar energy
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Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
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[NASA-CASE-MFS-23776-1] c 33 N82-28545
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[NASA-CASE-NPO-15753-1] c 27 N84-33589
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[NASA-CASE-ARC-11425-2] c 23 N87-28605
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[NASA-CASE-NPO-11001] c 07 N72-21118
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[NASA-CASE-NPO-14112-1] c 46 N79-22679
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[NASA-CASE-GSC-12756-1] c 74 N84-23248
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
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[NASA-CASE-NPO-17716-1-CU] c 62 N90-10606

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[NASA-CASE-XGS-10518] c 16 N71-28554
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[NASA-CASE-NPO-11437] c 16 N72-28521
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[NASA-CASE-GSC-12334-1] c 36 N79-14362
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-16372
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
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[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

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[NASA-CASE-NPO-15813-1] c 76 N85-30922
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[NASA-CASE-LAR-13638-1] c 31 N90-19427

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[NASA-CASE-XMS-03371] c 05 N70-42000
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[NASA-CASE-LAR-10083-1] c 15 N71-27006
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[NASA-CASE-MSC-14653-1] c 35 N77-19385

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[NASA-CASE-XAC-00073] c 14 N70-34813
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[NASA-CASE-NPO-10185] c 10 N71-26339

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[NASA-CASE-XLE-03157] c 26 N71-24736
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
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Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
Ion microprobe mass spectrometer for analyzing fluid materials Patent
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[NASA-CASE-ERC-10150] c 14 N71-28992
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[NASA-CASE-GSC-10903-1] c 14 N73-12444
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[NASA-CASE-XNP-04231] c 14 N73-32325
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11426-1] c 35 N74-34857
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
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[NASA-CASE-GSC-12077-1] c 35 N77-24455
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[NASA-CASE-LAR-11370-1] c 35 N80-28686
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[NASA-CASE-NPO-15423-1] c 35 N84-28016
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N89-28794

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Moving particle composition analyzer
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Particle analyzing method and apparatus
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[NASA-CASE-XER-09519] c 14 N71-18483

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[NASA-CASE-MSC-25707-1] c 35 N85-29214

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[NASA-CASE-XLE-00397] c 15 N70-36492
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[NASA-CASE-XFR-00811] c 15 N70-36901
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
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[NASA-CASE-NPO-11118] c 03 N72-25021
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[NASA-CASE-NPO-11213] c 15 N73-20514
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[NASA-CASE-MFS-20855] c 15 N73-27405
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[NASA-CASE-LAR-10841-1] c 31 N74-27900
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[NASA-CASE-MFS-22636-1] c 37 N76-22540
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[NASA-CASE-MFS-25363-1] c 37 N82-12441
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
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Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
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Burn rate testing apparatus
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[NASA-CASE-XLA-05099] c 09 N73-13209

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Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21485-1] c 61 N90-16410

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Solar cell submodule Patent
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Magnetic matrix memory system Patent
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[NASA-CASE-XNP-01318] c 10 N71-23033
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[NASA-CASE-NPO-10150] c 08 N71-24650
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Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

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Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
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[NASA-CASE-LEW-13770-6] c 25 N85-30039
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MCLEOD GAGES
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[NASA-CASE-XGS-01293-1] c 35 N79-33450

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[NASA-CASE-LAR-10806-1] c 35 N74-32877
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[NASA-CASE-NPO-13792-1] c 35 N77-32455
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[NASA-CASE-ARC-11361-1] c 35 N84-22934
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[NAS 1.71:NPO-15494-2] c 35 N85-34373
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[NASA-CASE-GSC-12795-1] c 35 N86-19580
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[NASA-CASE-XGS-04548] c 15 N71-24045
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[NASA-CASE-MSC-12052-1] c 15 N71-24599
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[NASA-CASE-XGS-08718] c 15 N71-24600
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[NASA-CASE-LAR-11074-1] c 51 N75-13502
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[NASA-CASE-XMS-03252] c 15 N71-10658
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[NASA-CASE-XNP-01020] c 03 N71-12260
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[NASA-CASE-MFS-14772] c 15 N71-17692
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[NASA-CASE-XNP-08897] c 15 N71-17694
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[NASA-CASE-XMF-07069] c 15 N71-23815
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[NASA-CASE-NPO-10173] c 15 N71-24696
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[NASA-CASE-FRC-10053] c 14 N70-35587
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[NASA-CASE-XLE-00335] c 14 N70-35368
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[NASA-CASE-ARC-11418-1] c 24 N84-11213
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[NASA-CASE-LAR-13230-1] c 24 N84-34571
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[NASA-CASE-LAR-12775-2] c 27 N85-21349
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[NASA-CASE-XFR-10858] c 05 N71-11189
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[NASA-CASE-XFR-08403] c 05 N71-11202
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[NASA-CASE-HQN-10541-2] c 15 N71-27135
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[NASA-CASE-ARC-10105] c 09 N72-17153
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
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[NASA-CASE-GSC-11169-2] c 05 N73-32011
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[NASA-CASE-NPO-13214-1] c 35 N75-25123
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[NASA-CASE-NPO-13313-1] c 54 N75-27761
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[NASA-CASE-GSC-12082-1] c 54 N76-22914
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[NASA-CASE-ARC-10816-1] c 35 N76-24525
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[NASA-CASE-LEW-12258-1] c 52 N77-28716
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[NASA-CASE-MSC-14623-1] c 52 N77-28717
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[NASA-CASE-LEW-12668-1] c 52 N78-14773
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[NASA-CASE-LEW-13107-1] c 52 N83-21785
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[NASA-CASE-NPO-15197-1] c 52 N83-25346
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[NASA-CASE-LAR-12650-1] c 52 N84-28388
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[NASA-CASE-LAR-12894-1] c 27 N85-20125
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[NASA-CASE-NPO-14297-1] c 33 N81-19389
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[NASA-CASE-MFS-25436-1] c 27 N83-36220
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[NASA-CASE-XNP-08837] c 18 N71-16210
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[NASA-CASE-XNP-08881] c 17 N71-26747
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[NASA-CASE-MSC-12423-1] c 91 N76-30131
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[NASA-CASE-NPO-14021-2] c 27 N80-16163
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[NASA-CASE-LEW-13135-2] c 27 N81-24257
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[NASA-CASE-GSC-10350-1] c 44 N82-24642
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[NASA-CASE-GSC-10018-1] c 44 N82-24644

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[NASA-CASE-XGS-03865] c 14 N69-21363
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[NASA-CASE-XMS-02952] c 18 N71-20742
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[NASA-CASE-NPO-11091] c 18 N72-22567
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[NASA-CASE-NPO-13732-1] c 44 N79-10513
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[NASA-CASE-ARC-11121-1] c 25 N79-14189
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[NASA-CASE-ARC-10980-1] c 27 N80-23452
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[NASA-CASE-NPO-14001-1] c 27 N81-14076
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[NASA-CASE-XGS-05584-1] c 25 N82-29370
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[NASA-CASE-NPO-15375-1] c 74 N84-11921
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[NASA-CASE-ARC-11359-1] c 51 N84-28361
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[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151

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[NASA-CASE-MSC-20964-1] c 60 N87-14863
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[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
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[NASA-CASE-MSC-21348-1] c 62 N89-24084
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[NASA-CASE-MSC-21387-1] c 61 N90-16411
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[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
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[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010

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[NASA-CASE-XNP-02251] c 12 N71-20896
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[NASA-CASE-XNP-01263-2] c 15 N71-26312
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[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

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[NASA-CASE-ARC-11059-1] c 54 N78-32721
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[NASA-CASE-MSC-16777-1] c 51 N80-27067

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[NASA-CASE-LAR-10773-3] c 51 N77-25769
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[NASA-CASE-XGS-04554] c 15 N69-39786
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[NASA-CASE-XLE-01604-2] c 15 N71-15610
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Apparatus for the determination of the existance or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
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[NASA-CASE-NPO-13360-1] c 37 N75-25185
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[NASA-CASE-LEW-11573-1] c 26 N77-28265
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
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[NASA-CASE-LAR-10941-2] c 37 N79-13364
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[NASA-CASE-GSC-12318-1] c 37 N80-23655
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
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[NASA-CASE-GSC-12880-1] c 26 N86-32550
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[NASA-CASE-LAR-13435-1] c 37 N88-23981

METAL COATINGS
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE XNP-03459] c 15 N71-21078
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28806
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
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[NASA-CASE-LEW-12552-1] c 44 N78-25527
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

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[NASA-CASE-HQN-10638-1] c 15 N73-30460
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

METAL FATIGUE
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N90-15297

METAL FIBERS
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12562-1] c 33 N79-12331

METAL FILMS
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Deposition of alloy films — on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

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Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Surface finishing — for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225

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Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Thermal control of apace vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of making porous conductive supports for electrodes — by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

METAL FUELS

Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

METAL HALIDES

Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
High power metallic halide laser — amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

METAL HYDRIDES

Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436

METAL IONS

Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571

METAL JOINTS

Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

METAL MATRIX COMPOSITES

Reinforced metallic composites Patent
[NASA-CASE-XLE-02426] c 17 N70-33268
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Heat exchanger and method of making — bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Heat exchanger and method of making — rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Method for alleviating thermal stress damage in laminates — metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613

METAL OXIDE SEMICONDUCTORS

Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

METAL OXIDES

Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Method of forming oxide coatings — for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

METAL PARTICLES

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-26729
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

METAL PLATES

Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132

METAL POWDER

Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

METAL SHEETS

Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Apparatus for welding sheet material — butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

METAL SHELLS

Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

METAL SPINNING

Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

METAL SPRAYING

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

METAL STRIPS

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
High speed shutter — electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

METAL SURFACES

Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09489] c 24 N71-25555
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-28312
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Thin film gauge — for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455

Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N89-28651

METAL VAPOR LASERS
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

METAL VAPORS
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

METAL WORKING
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

METAL-METAL BONDING
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21851
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

METALLIC GLASSES
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

METALLIZING
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

METALLOGRAPHY
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

METALLOSILOXANE POLYMER
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

METALLURGY
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

METALS
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N90-27041

METASTABLE STATE
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

METEORITE COLLISIONS
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

METEORITES
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018

METEORITIC DAMAGE
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

METEOROID HAZARDS
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

METEOROID PROTECTION
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

METEOROIDS
Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131

METEOROLOGICAL BALLOONS
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

METHANE
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118

METHYL ALCOHOL
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

METHYL COMPOUNDS
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

METHYLENE
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

MICHELSON INTERFEROMETERS
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13681
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

MICROANALYSIS
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

MICROBALANCES
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

MICROBALLOONS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

MICROBIOLOGY
Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

MICROCHANNELS
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

MICROCRACKS
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881

MICROELECTRONICS
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28763
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

MICROFIBERS
Small conductive particle sensor — microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

MICROFILMS
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

MICROGRAVITY APPLICATIONS
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557

MICROINSTRUMENTATION
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMETEORITES
Method of and device for determining the characteristics and flux distribution of micrometeorites — scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

MICROMETEOROIDS
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

MICROMETERS
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMINIATURIZATION
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

MICROORGANISMS
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Measurement of gas production of microorganisms — using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

MICROPARTICLES
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04818] c 06 N69-39936
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

MICROPHONES
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
High-temperature microphone system — for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Carbon granule probe microphone for leak detection — recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

MICROPOROSITY
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887

MICROPROCESSORS
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

MICROSCOPES
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N90-27113

MICROSTRIP ANTENNAS
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Planar microstrip Yagi array antenna
[NASA-CASE-NPO-17873-1-CU] c 32 N90-27015

MICROSTRIP TRANSMISSION LINES
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

MICROSTRUCTURE
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Diffusion welding — heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of determining bond quality of power transistors attached to substrates — X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

MICROTHRUST
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766

MICROWAVE AMPLIFIERS
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

MICROWAVE ANTENNAS
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22868
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

MICROWAVE CIRCUITS
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Universal nondestructive MM-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N90-17009

MICROWAVE COUPLING
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MICROWAVE EQUIPMENT
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Resonant waveguide stark cell — using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Refrigerated coaxial coupling — for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MICROWAVE FILTERS
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

MICROWAVE FREQUENCIES
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Composite antenna feed
[NASA-CASE-GSC-11048-1] c 07 N73-28013

MICROWAVE OSCILLATORS
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Electron beam controller — using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

MICROWAVE RADIOMETERS
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Microwave limb sounder — measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

MICROWAVE REFLECTOMETERS
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

MICROWAVE RESONANCE
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MICROWAVE SCATTERING
Almond test body — for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-29672

MICROWAVE SENSORS
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360
MICROWAVE SWITCHING
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Microwave switching power divider — antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
MICROWAVE TRANSMISSION
Frequency translating phase conjugation circuit for active retrodirective antenna array — microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
MICROWAVE TUBES
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
MICROWAVES
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23586
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
MIDAIR COLLISIONS
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
MILLIMETER WAVES
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
MILLING (MACHINING)
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
MILLING MACHINES
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
MIMD (COMPUTERS)
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
MINERAL DEPOSITS
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
MINERAL METABOLISM
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
MINES (EXCAVATIONS)
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
MINIATURE ELECTRONIC EQUIPMENT
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29864
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
MINIATURIZATION
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13828-1] c 35 N90-23707
MINING
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
MINORITY CARRIERS
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
MIRRORS
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27481
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-06907] c 23 N71-29123
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-16391
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10989
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
MIS (SEMICONDUCTORS)
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
MISALIGNMENT
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N90-26341
MISSILE CONTROL
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
MISSILE LAUNCHERS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
MISSILE STRUCTURES
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
MISSILES
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32166
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
MITOSIS
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
MIXERS
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
MIXING
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
MIXING CIRCUITS
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
MIXTURES
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
MOBILE COMMUNICATION SYSTEMS
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
MOBILITY
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
MODE TRANSFORMERS
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10878
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
MODEMS
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
MODES (STANDING WAVES)
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
MODULATION
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
MODULATORS
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Full wave modulator-demodulator amplifier apparatus — for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203

MODULES
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411

MODULUS OF ELASTICITY
Glass compositions with a high modulus of elasticity — nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10831-2] c 27 N82-29452
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10326-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions — for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

MOISTURE
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

MOISTURE CONTENT
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MOISTURE METERS
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MOISTURE RESISTANCE
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282

MOLDING MATERIALS
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molded composite pyrogen igniter for rocket motors — solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

MOLDS
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molding apparatus — for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Evacuated, displacement compression mold — of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Method of making an apertured casting — using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

MOLECULAR BEAM EPITAXY
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

MOLECULAR BEAMS
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

MOLECULAR CHAINS
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Novel ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N88-29984

MOLECULAR GASES
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

MOLECULAR PUMPS
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Rotating shaft seal Patent
[NASA-CASE-XNP-02662-1] c 15 N71-26294

MOLECULAR RELAXATION
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

MOLECULAR ROTATION
Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

MOLECULAR SPECTRA
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

MOLECULAR SPECTROSCOPY
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MOLECULAR STRUCTURE
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

MOLECULAR WEIGHT
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

MOLECULES
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263

MOLTEN SALT ELECTROLYTES
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

MOLTEN SALTS
Molten salt pyrolysis of latex — synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124

MOLYBDENUM
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14348

MOLYBDENUM CARBIDES
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

MOLYBDENUM DISULFIDES
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

MOMENTS OF INERTIA
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

MOMENTUM
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

MOMENTUM TRANSFER
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292

MONATOMIC GASES
Atomic hydrogen storage — cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

MONITORS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Droplet monitoring probe
[NASA-CASE-NPO-10965] c 14 N73-20478
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10729-1] c 14 N73-32319
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Scanning seismic intrusion detection method and apparatus — monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Laser schlieren crystal monitor
[NASA-CASE-MFS-28080-1] c 76 N87-25862
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-26676
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20086
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

MONOCHROMATIC RADIATION
Continuous plasma light source
[NASA-CASE-XNP-04187-2] c 25 N72-24753
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

MONOCHROMATORS
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13481

Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

MONOMERS
Pressure transducer — using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Polyphenylquinoxalines containing alkyleneoxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14348-1] c 23 N90-19300

MONOPOLE ANTENNAS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

MONOPROPELLANTS
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Low thrust monopropellant engine
[NASA-CASE-GSC-12184-2] c 20 N82-18314

MONOPULSE ANTENNAS
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

MONOPULSE RADAR
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20884
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

MONOSTABLE MULTIVIBRATORS
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

MORPHOLOGY
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

MOSSBAUER EFFECT
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

MOTION
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

MOTION PICTURES
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SIMULATORS
Kinesthetic control simulator — for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15862
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

MOTION STABILITY
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

MOTORS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864

MOUNTING
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Deformable bearing seal
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Almond test body — for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28872
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N90-26341

MOVING TARGET INDICATORS
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

MULTIBEAM ANTENNAS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

MULTICHANNEL COMMUNICATION
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 09 N71-19783
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Medical subject monitoring systems — multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

MULTILAYER INSULATION
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417

MULTIPACTOR DISCHARGES
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

MULTIPATH TRANSMISSION
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

MULTIPLE BEAM INTERVAL SCANNERS
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Variable beamwidth antenna — with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

MULTIPLE DOCKING ADAPTERS
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03813] c 31 N71-16348

MULTIPLE OUTPUT PROGRAMS
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

MULTIPLEXING
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22182
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Asynchronous, multiplexing, single line transmission and recovery data system — for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
Correlation type phase detector — with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Multi-channel temperature measurement amplification system — solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N88-24862
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

MULTIPLIERS
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N76-32341
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

MULTIPROCESSING (COMPUTERS)
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527

MULTISPECTRAL BAND SCANNERS
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Medical diagnosis system and method with multispectral imaging — depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

MULTISPECTRAL LINEAR ARRAYS
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

MULTISPECTRAL PHOTOGRAPHY
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Multispectral imaging and analysis system — using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

MULTISPECTRAL TRACKING TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

MULTISTAGE ROCKET VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

MULTIVIBRATORS
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00361] c 09 N70-34819
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-16723
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28488
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

MUSCLES
Subminature insertable force transducer — including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703

MUSCULAR FUNCTION
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MUSCULOSKELETAL SYSTEM
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738

MYOCARDIUM
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13844-1] c 52 N76-29895
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MYOPIA
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

N

N-TYPE SEMICONDUCTORS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

NACELLES
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

NASA PROGRAMS
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

NAVIGATION
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

NAVIGATION AIDS
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Ruler for making navigational computations
[NASA-CASE-XNP-01456] c 04 N78-17031
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

NAVIGATION INSTRUMENTS
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552

NAVIGATION SATELLITES
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

NEAR INFRARED RADIATION
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-23546-2] c 14 N73-30389

NEGATIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

NEGATIVE IONS
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

NEODYMIUM LASERS
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

NERVES
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
Method and apparatus for applying a mechanical force to surface
[NASA-CASE-LAR-14009-1] c 37 N90-27115

NETWORK SYNTHESIS
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

NEURAL NETS
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
A method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N89-24084
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N90-27384
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

NEUROGLIA
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

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Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

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Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

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[NASA-CASE-XLE-06969] c 17 N71-24142
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
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[NASA-CASE-XMF-06053] c 26 N75-27126
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[NASA-CASE-LEW-12619-1] c 24 N77-19171
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[NASA-CASE-LEW-12905-1] c 26 N78-18183
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[NASA-CASE-ARC-11424-1] c 27 N85-34281
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NICKEL ALLOYS
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[NASA-CASE-XLE-00151] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36816
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[NASA-CASE-XLE-02062] c 17 N71-16026
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[NASA-CASE-LEW-10874-1] c 17 N72-22535
Diffusion welding — heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
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[NASA-CASE-LEW-12245-1] c 26 N77-20201
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy — for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
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[NASA-CASE-LEW-13834-1] c 26 N87-14482
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[NASA-CASE-LEW-14262-1] c 26 N87-28647

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Heat flow calorimeter — measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

NICKEL COATINGS
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Selective coating for solar panels — using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N79-19599

NICKEL COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10606
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

NICKEL HYDROGEN BATTERIES
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874

NICKEL PLATE
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830

NICKEL ZINC BATTERIES
Additive for zinc electrodes — electric automobiles
[NASA-CASE-LEW-13296-1] c 33 N84-14422

NIOBIUM
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808

NIOBIUM COMPOUNDS
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[NASA-CASE-NPO-16881-1-CU] c 76 N88-24543
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[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

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Nitramine propellants — gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
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The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
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[NASA-CASE-ARC-10814-2] c 07 N80-26298
NITRIDES
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-24543
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
NITRIDING
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
NITRILES
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
NITRO COMPOUNDS
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
NITROAMINES
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
NITROGEN
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N78-31409
NITROGEN COMPOUNDS
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
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Combustion engine — for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Combuster — low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
NITROGEN TETROXIDE
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
NITROGUANIDINE
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
NOBLE METALS
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
NODES (STANDING WAVES)
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
NOISE GENERATORS
Pseudo-noise test set for communication system evaluation — test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
NOISE METERS
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Ride quality meter
[NASA-CASE-LAR-12682-1] c 35 N84-12445
NOISE REDUCTION
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Digital telemetry system Patent
[NASA-CASE-XGS-01612] c 07 N71-23001
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Gas turbine exhaust nozzle — for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Totally confined explosive welding — apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
Supersonic fan blading — noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Noise suppressor — for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
Cascade plug nozzle — for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Optical noise suppression device and method — laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
Acoustically swept rotor — helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Multiple pure tone elimination strut assembly — air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710
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NOISE TEMPERATURE
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
NOISE THRESHOLD
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
NONADIABATIC CONDITIONS
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
NONDESTRUCTIVE TESTS
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18615
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26786
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[NASA-CASE-XMF-02221] c 18 N71-27170
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28990
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-26563
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ultrasonic angle beam standard reflector — ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13617-1] c 26 N90-21170
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[NASA-CASE-LAR-13724-1] c 38 N90-23756
NONEQUILIBRIUM CONDITIONS
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
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Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
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NONEQUILIBRIUM RADIATION
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
NONFLAMMABLE MATERIALS
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
NONLINEAR FEEDBACK
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N78-14373
NONLINEAR FILTERS
Apparatus for damping operator induced oscillations of a controlled system — flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
NONLINEAR OPTICS
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263
NONLINEAR SYSTEMS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
NORMAL DENSITY FUNCTIONS
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
NOSE CONES
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

NOSE WHEELS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
NOTCH STRENGTH
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
NOTCH TESTS
Vee-notching device — with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
NOTCHES
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
NOZZLE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15680
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Prestressed refractory structure Patent
[NASA-CASE-XNP-02868] c 18 N71-21068
Scanning nozzle plating system — for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13378
Low-noise nozzle valve
[NASA-CASE-MFS-26383-1] c 34 N90-17051
NOZZLE FLOW
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10188] c 10 N71-26339
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
NOZZLE GEOMETRY
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
NOZZLE INSERTS
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11068
NUCLEAR EXPLOSION EFFECT
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
NUCLEAR FUEL ELEMENTS
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
NUCLEAR MAGNETIC RESONANCE
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
NUCLEAR POWER PLANTS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
NUCLEAR PUMPED LASERS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
NUCLEAR PUMPING
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
NUCLEAR REACTOR CONTROL
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
NUCLEAR REACTORS
Nuclear thermionic converter — tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
NUCLEATE BOILING
Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04258] c 33 N71-16277
NUCLEOPHILES
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13968-1] c 23 N89-11814
NULL ZONES
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
NUMBER THEORY
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
NUMERICAL ANALYSIS
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
NUMERICAL CONTROL
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Controller for computer control of brushless dc motors — automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N89-25263
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
NUMERICAL INTEGRATION
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04788] c 08 N71-19437
NUTATION
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
NUTATION DAMPERS
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
NUTS (FASTENERS)
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

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O RING SEALS
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Resilient seal ring assembly with spring means applying force to wedge member — cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
O-ring gasket test fixture
[NASA-CASE-MFS-26376-1] c 14 N89-28546
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
OBLIQUE WINGS
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
OBSERVATION
Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
OBSTACLE AVOIDANCE
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110
OCCLUSION
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
OCEAN CURRENTS
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
OCEAN DATA ACQUISITIONS SYSTEMS
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[NASA-CASE-LAR-11341-1] c 36 N75-19655
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[NASA-CASE-NPO-11106] c 14 N70-34697
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[NASA-CASE-NPC-11002] c 14 N72-22441
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[NASA-CASE-XLA-03104] c 06 N71-11235
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[NASA-CASE-NPO-12130-1] c 25 N75-14844
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[NASA-CASE-XMF-06409] c 06 N71-23230
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[NASA-CASE-XNP-03250] c 06 N71-23500
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[NASA-CASE-NPO-10701] c 06 N71-26620
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[NASA-CASE-GSC-11214-1] c 06 N73-13128
Automated system for identifying traces of organic chemical compounds in aqueous solutions
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[NASA-CASE-MSC-16497-1] c 25 N82-12166
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726

The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-26605
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124

ORGANIC MATERIALS
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

ORGANIC SILICON COMPOUNDS
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

ORGANIC SULFUR COMPOUNDS
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

ORGANOMETALLIC COMPOUNDS
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-26806
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

ORGANOMETALLIC POLYMERS
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

ORIFICE FLOW
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

ORIFICES
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

ORTHO HYDROGEN
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHO PARA CONVERSION
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHOGONAL MULTIPLEXING THEORY
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

ORTHOGONALITY
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

ORTHOPEDICS
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661

ORTHOTROPIC CYLINDERS
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

OSCILLATING FLOW
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

OSCILLATION DAMPERS
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333

OSCILLATIONS
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

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Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13873-1] c 71 N77-26919
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23835
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

OSCILLOSCOPES
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

OUTER PLANETS EXPLORERS
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

OUTGASSING
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-26582
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147

OUTLET FLOW
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

OUTPUT
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

OVENS
Heat shield oven
[NASA-CASE-XMS-04319] c 15 N69-27871
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431

OVERPRESSURE
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

OVERVOLTAGE
Protective circuit of the spark gap type
[NASA-CASE-XAC-06981] c 09 N69-39897
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377

OXAZOLE
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

OXIDATION
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19456
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Oxidation of semiconductors and superconductors
[NASA-CASE-NPO-17534-1-CU] c 76 N89-30076
Novel polyimide compositions based on 4,4' Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15146
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517

OXIDATION RESISTANCE
Nickel-base alloy containing Mo-W-Al-Cr- Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16025
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35213
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480

OXIDATION-REDUCTION REACTIONS
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

OXIDE FILMS
Method of forming oxide coatings — for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29386
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

OXIDES
Novel polymers and method of preparing same
[NASA-CASE-NPO-10986-1] c 06 N73-32029

OXIDIZERS
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

OXIMETRY
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

OXYGEN
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01897] c 06 N71-23527
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 48 N74-13011
Nonflammable coating compositions — for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025

OXYGEN ATOMS
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-18640-1-CU] c 72 N87-21661

OXYGEN CONSUMPTION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

OXYGEN FLUORIDES
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N78-16228

OXYGEN ISOTOPES
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

OXYGEN METABOLISM
Metabolic analyzer — for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

OXYGEN PLASMA
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

OXYGEN PRODUCTION
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744

OXYGEN REGULATORS
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23069-1] c 44 N76-27984

OXYGEN SUPPLY EQUIPMENT
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Slow opening valve — valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

OZONE
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

P

P-I-N JUNCTIONS
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

P-N JUNCTIONS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

P-TYPE SEMICONDUCTORS
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34838
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

PACKAGES
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085

PACKAGING
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33190
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20655] c 15 N73-27405
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482

PACKET TRANSMISSION
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21426

PACKING DENSITY
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04616] c 06 N69-39036
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

PACKINGS (SEALS)
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

PAD
Lubricated journal bearing
[NASA-CASE-LEW-11078-3] c 37 N75-30582

PAINTS
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12983-1] c 27 N85-29044

PALLADIUM
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

PALLADIUM COMPOUNDS
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

PANELS
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of making pressurized panel Patent
[NASA-CASE-XLA-06916] c 15 N71-29016
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Pressurized panel
[NASA-CASE-XLA-06916-2] c 14 N73-28487
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11888-2] c 24 N78-17149
Selective coating for solar panels — using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23516-3] c 44 N80-16452
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13089
Method of forming oxide coatings — for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29386
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13781-1] c 34 N90-20323
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751

PANORAMIC SCANNING
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17380-1-CU] c 35 N90-22769

PAPER (MATERIAL)
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

PAPERS
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

PARA HYDROGEN
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

PARABOLIC ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24896
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns — parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N88-25363

PARABOLIC REFLECTORS
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658

Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-29082
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

PARABOLOID MIRRORS
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27986

PARACHUTE DESCENT
Parachute glider Patent
[NASA-CASE-XLA-00698] c 02 N70-36804
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

PARACHUTE FABRICS
Lightweight, variable solidity knitted parachute fabric — for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

PARACHUTES
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system — model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing parachutes — monorail conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

PARAGLIDERS
Parachute glider Patent
[NASA-CASE-XLA-00698] c 02 N70-36804

PARALLAX
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N79-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PARALLEL COMPUTERS
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27288

PARALLEL PLATES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02699-1] c 33 N79-21265
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

PARALLEL PROCESSING (COMPUTERS)
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
A method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N89-24094
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17584-1-CU] c 32 N90-16974
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27288
Analog hardware for learning neural networks
[NASA-CASE-NPO-17684-1-CU] c 62 N90-27384

PARAMETER IDENTIFICATION
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379

PARAMETRIC AMPLIFIERS
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660

PARAMETRIC FREQUENCY CONVERTERS
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

PARAWINGS
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630

PARKING
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

PARTIAL PRESSURE
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

PARTICLE ACCELERATION
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

PARTICLE ACCELERATOR TARGETS
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Deuterium pass through target — neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
Closed loop spray cooling apparatus — for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

PARTICLE BEAMS
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Doppler shift system — system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-26575

PARTICLE COLLISIONS
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

PARTICLE DENSITY (CONCENTRATION)
Micrometeroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332

PARTICLE EMISSION
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328

PARTICLE ENERGY
Particle detector apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

PARTICLE MASS
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Microbalance — for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

PARTICLE MOTION
Moving particle composition analyzer
[NASA-CASE-GSC-11689-1] c 35 N76-16393

PARTICLE PRODUCTION
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

PARTICLE SIZE DISTRIBUTION
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-28153
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19583
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13604-2] c 35 N80-18364
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Polyvinyl alcohol battery separator containing inert filler — alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26856

PARTICLE TRAJECTORIES
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
Direction sensitive laser velocimeter — determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

PARTICLES
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Particle parameter analyzing system — x-y plotter circuits and display
[NASA-CASE-XLE-08094] c 33 N78-17293
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25426
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603

PARTICULATE SAMPLING
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Electrophoretic sample insertion — device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N90-27111

PARTICULATES
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376

PASSAGEWAYS
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28931
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209

PASSENGERS
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

PASSIVE SATELLITES
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

PASSIVITY
Passivation of high temperature superconductors
[NASA-CASE-NPO-17949-1-CU] c 76 N90-26684

PATENT APPLICATIONS
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N90-27042

PATENTS
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

PATIENTS
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

PATTERN RECOGNITION
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

PAYLOAD DELIVERY (STS)
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 18 N88-24660

PAYLOAD RETRIEVAL (STS)
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

PAYLOADS
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15667
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

PCM TELEMETRY
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197

PEELING
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

PEENING
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

PELLETS
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16840

PELTIER EFFECTS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

PELVIS
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

PENETRANTS
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

PENETRATION
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

PENETROMETERS
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

PERCEPTION
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

PERFLUORO COMPOUNDS
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Polymerizable disilanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphathalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

PERFLUOROALKANE
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

PERFORATED PLATES
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-26582

PERFORATED SHELLS
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

PERFORMANCE PREDICTION
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

PERFORMANCE TESTS
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546
A torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N89-28547
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

PERIODIC VARIATIONS
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

PERIPHERAL EQUIPMENT (COMPUTERS)
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

PERISCOPES
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362

PERMANENT MAGNETS
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

PERMEABILITY
Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

PERMITTIVITY
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546

PEROXIDES
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

PERSPIRATION
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

PERTURBATION
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

PERTURBATION THEORY
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

PH FACTOR
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12693-1] c 76 N85-30923

PHASE COHERENCE
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

PHASE CONTRAST
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

PHASE CONTROL
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

PHASE DEMODULATORS
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12016-1] c 33 N77-14334

PHASE DETECTORS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30385

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20665-1] c 32 N87-18692
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

PHASE DEVIATION

System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927

PHASE ERROR

Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

PHASE LOCK DEMODULATORS

Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

PHASE LOCKED SYSTEMS

Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-06665] c 10 N71-19467
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Phase-locked servo system -- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
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[NASA-CASE-LAR-13310-1] c 32 N87-14559
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
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[NASA-CASE-XAC-06302] c 08 N71-19763
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[NASA-CASE-XMF-01892] c 10 N71-22986
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
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[NASA-CASE-MSC-13201-1] c 07 N71-28429
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[NASA-CASE-NPO-11548] c 07 N73-26118
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20911
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
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[NASA-CASE-NPO-13909-1] c 33 N78-25319
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[NASA-CASE-GSC-12137-1] c 33 N78-32338
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[NASA-CASE-LEW-12780-1] c 20 N79-20179
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14841-1] c 32 N81-29308
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
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[NASA-CASE-NPO-15808-1] c 74 N84-28590

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Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01500] c 07 N71-12392
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11398] c 08 N72-25208
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
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[NASA-CASE-LAR-13310-1] c 32 N87-14559
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[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
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[NASA-CASE-MSC-18808-1] c 32 N90-20280

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[NASA-CASE-XAC-10908-1] c 09 N71-12517
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[NASA-CASE-ARC-10269-1] c 10 N72-16172
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
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[NASA-CASE-MSC-18035-1] c 32 N81-15179
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[NASA-CASE-NPO-13103-1] c 32 N74-20811
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[NASA-CASE-MSC-14065-1] c 32 N74-26654
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[NASA-CASE-MSC-14066-1] c 33 N74-27705
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[NASA-CASE-MSC-14840-1] c 32 N77-24331
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[NASA-CASE-NPO-14444-1] c 33 N81-15192
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[NASA-CASE-LAR-12659-1] c 33 N82-26570
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[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001
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[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

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[NASA-CASE-XMS-09610] c 07 N71-24625

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[NASA-CASE-XLE-02083] c 03 N69-39983
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[NASA-CASE-XLE-01182] c 27 N71-15635
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

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Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432

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Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10295] c 10 N73-16206
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[NASA-CASE-MSC-14939-1] c 32 N79-11264
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[NASA-CASE-NPO-13641-1] c 32 N79-24210
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[NASA-CASE-MSC-16800-1] c 32 N81-14187
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[NASA-CASE-MSC-18532-1] c 32 N82-27558
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[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

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[NASA-CASE-LAR-10337-1] c 24 N75-30260
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[NASA-CASE-LAR-13985-1-CU] c 23 N90-21118
Boron-containing organosilane polymers and ceramic materials thereof
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[NASA-CASE-ARC-11370-1] c 27 N84-22750
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[NASA-CASE-ARC-11428-1] c 23 N86-19376
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[NASA-CASE-ARC-11428-2] c 27 N87-16909
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[NASA-CASE-ARC-11428-3] c 23 N88-24692
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[NASA-CASE-MSC-14903-1] c 27 N79-32256
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[NASA-CASE-MSC-14903-2] c 27 N80-10358
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[NASA-CASE-MSC-14903-3] c 27 N80-24438
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[NASA-CASE-ARC-11368-1] c 27 N83-31854
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High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
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[NASA-CASE-NPO-15789-1] c 31 N83-19947
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[NASA-CASE-ARC-11522-2] c 27 N85-34290
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[NASA-CASE-ARC-11425-4] c 23 N90-20133
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[NASA-CASE-ARC-11425-3] c 23 N90-23475
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[NASA-CASE-ARC-11321-1] c 27 N81-27272
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[NASA-CASE-ARC-11506-2] c 23 N86-32525
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[NASA-CASE-ARC-11425-2] c 23 N87-29805
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[NASA-CASE-ARC-11176-2] c 27 N81-27271
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[NASA-CASE-ARC-11176-1] c 27 N82-18389
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[NASA-CASE-NPO-14363-1] c 39 N81-25400
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[NASA-CASE-XNP-04161] c 14 N71-15599
III-V photocathode with nitrogen doping for increased quantum efficiency
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[NASA-CASE-NPO-13586-1] c 25 N77-32255
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[NASA-CASE-LEW-12485-1] c 25 N78-25148
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[NASA-CASE-MSC-16074-1] c 27 N80-26446
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[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487
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[NASA-CASE-NPO-10233-1] c 74 N78-33913
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[NASA-CASE-LAR-12513-1] c 44 N82-32841
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[NASA-CASE-ERC-10108] c 06 N72-21094
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[NASA-CASE-XFR-05637] c 09 N71-19480
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[NASA-CASE-GSC-12297-1] c 37 N79-28549
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[NASA-CASE-NPO-15155-1] c 74 N85-22139
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[NASA-CASE-LEW-12485-1] c 25 N78-25148
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Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10679
Method of and device for determining the characteristics and flux distribution of micrometeorites — scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
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[NASA-CASE-LAR-12178-1] c 74 N80-21138
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[NASA-CASE-MFS-23778-1] c 33 N82-26545
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[NASA-CASE-NPO-15458-1] c 25 N84-12262
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30823
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Photoelectron spectrometer with means for stabilizing sample surface potential
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[NASA-CASE-MSC-18107-1] c 27 N81-25209
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[NASA-CASE-NPO-10174] c 14 N71-18465
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[NASA-CASE-GSC-12110-1] c 27 N77-32308
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[NASA-CASE-NPO-14219-1] c 74 N81-17886
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[NASA-CASE-LAR-10686] c 14 N71-28935
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[NASA-CASE-LAR-10319-1] c 14 N73-32322
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[NASA-CASE-MSC-12640-1] c 74 N78-31998
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11811-1] c 74 N87-28416
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Means and method of measuring viscoelastic strain Patent
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[NASA-CASE-LAR-10913] c 14 N72-16282
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[NASA-CASE-GSC-11989-1] c 74 N77-28932
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[NASA-CASE-MFS-23481-1] c 35 N79-10389
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[NASA-CASE-GSC-11074-1] c 14 N73-28489
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[NASA-CASE-XLA-01353] c 14 N70-41366
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[NASA-CASE-ERC-10019] c 16 N71-15551
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[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
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[NASA-CASE-MFS-20598] c 14 N72-17324
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[NASA-CASE-XGS-03736] c 14 N72-22443
Method for determining thermo-physical properties of specimens — photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
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System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
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[NASA-CASE-ERC-10044-1] c 14 N71-27090
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[NASA-CASE-NPO-13875-1] c 44 N77-32580
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[NASA-CASE-MSC-19442-1] c 74 N77-10899
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Method for applying photographic resists to otherwise incompatible substrates
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[NASA-CASE-NPO-10320] c 14 N71-17655
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[NASA-CASE-NPO-10194] c 03 N71-20407
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[NASA-CASE-XNP-01059] c 23 N71-21821
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[NASA-CASE-XGS-01331] c 14 N71-22996
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[NASA-CASE-ERC-10174] c 14 N72-25409
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[NASA-CASE-LAR-10726-1] c 14 N73-12445
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[NASA-CASE-ARC-10833-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer — particulate refractivity in hydrosols
[NASA-CASE-GSC-12068-1] c 74 N78-13874
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
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[NASA-CASE-NPO-17235-1-CU] c 15 N80-21358
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[NASA-CASE-LAR-10176-1] c 14 N72-20380
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[NASA-CASE-ARC-10468-1] c 14 N73-33381
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[NASA-CASE-NPO-16299-1] c 33 N87-14594
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Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03814] c 21 N71-10771
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
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[NASA-CASE-XLA-07813] c 14 N72-17328
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[NASA-CASE-LAR-10320-1] c 09 N72-23172
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[NASA-CASE-NPO-11201] c 14 N72-27409
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[NASA-CASE-ARC-10593-1] c 33 N74-27682
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[NASA-CASE-NPO-13586-1] c 25 N77-32255
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[NASA-CASE-NPO-15644-1] c 35 N84-33767
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[NASA-CASE-LEW-12552-1] c 44 N78-25527
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[NASA-CASE-NPO-16372-1] c 72 N86-33127
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Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00436] c 21 N70-35089
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[NASA-CASE-MSC-10966] c 14 N71-19568
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[NASA-CASE-LAR-10320-1] c 09 N72-23172
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[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
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[NASA-CASE-XGS-03736] c 14 N72-22443
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[NASA-CASE-XNP-01153] c 32 N71-17645
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[NASA-CASE-XNP-04180] c 07 N69-39736
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[NASA-CASE-XGS-00359] c 14 N70-34158
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[NASA-CASE-NPO-10373] c 03 N71-18898
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
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[NASA-CASE-MFS-22458-1] c 44 N77-10535
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[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
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[NASA-CASE-NPO-14303-1] c 44 N80-18550
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[NASA-CASE-NPO-15179-1] c 44 N82-26777
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[NASA-CASE-LEW-12692-1] c 44 N83-14692
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[NASA-CASE-LAR-12469-1] c 35 N83-21311
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[NASA-CASE-NPO-14936-1] c 47 N83-32232
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-26760
PHOTOVOLTAIC CONVERSION
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
PHOTOVOLTAIC EFFECT
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
PHTHALATES
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
PHTHALOCYANIN
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
PHYSICAL EXERCISE
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Manual actuator — for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
PHYSICAL PROPERTIES
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
PHYSIOLOGICAL EFFECTS
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
PHYSIOLOGICAL TESTS
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Medical subject monitoring systems — multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
PHYSIOLOGY
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
PIERCING
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-28656
PIEZOELECTRIC CRYSTALS
Miniature stress transducer Patent
[NASA-CASE-XNP-02963] c 14 N71-21091
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
CDS solid state phase insensitive ultrasonic transducer — annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20659
PIEZOELECTRIC TRANSDUCERS
Force transducer, Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
PIEZOELECTRICITY
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00291] c 03 N70-39930
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
PIEZORESISTIVE TRANSDUCERS
Miniature stress transducer Patent
[NASA-CASE-XNP-02963] c 14 N71-21091
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
PIGMENTS
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
PILOT TRAINING
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Kinesthetic control simulator — for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
PILOTS (PERSONNEL)
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
PINCH EFFECT
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
PINHOLE CAMERAS
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
PINS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00156] c 28 N71-29154
Safety-type locking pin
[NASA-CASE-MFS-18496] c 15 N72-11385

Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
PINTLES
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12118-1] c 15 N71-17848
PIPE FLOW
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814
PIPELINES
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-29937
PIPELINING (COMPUTERS)
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Neighborhood comparison operator
[NASA-CASE-NPO-16484-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N86-24189
Programmable pipelined image processor
[NASA-CASE-NPO-16481-1CU] c 60 N89-26400
PIPES (TUBES)
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Tube dimpling tool Patent
[NASA-CASE-XMS-06878] c 15 N71-21536
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01080] c 15 N71-22723
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24985
Weld preparation machine Patent
[NASA-CASE-XKS-07853] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 06 N72-25122
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10064] c 18 N72-25540
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10063] c 18 N72-25541
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-29085
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18813
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Tube coupling device
[NASA-CASE-MFS-25064-2] c 37 N87-22977
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13682-1] c 37 N88-14359
PISTON ENGINES
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-29574
PISTONS
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-34042
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21485
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20648
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14893
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-29081
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
PITCH (INCLINATION)
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12780-1] c 07 N77-17059
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-34106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12582-1] c 08 N81-26152
Swashplate control system
[NASA-CASE-ARC-11833-1] c 08 N87-23831
PITCHING MOMENTS
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
PIVOTS
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22978
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19805
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27268
PLANAR STRUCTURES
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31784
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Planar microstrip Yagi array antenna
[NASA-CASE-NPO-17673-1-CU] c 32 N90-27015
PLANE WAVES
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11561] c 07 N73-14130
PLANETARY ATMOSPHERES
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
Flow field simulation Patent
[NASA-CASE-LAR-11139] c 12 N71-20436
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
PLANETARY GRAVITATION
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34796
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
PLANETARY LANDING
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
PLANETARY ORBITS
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
PLANETARY RADIATION
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
PLANETARY SURFACES
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
PLANTS (BOTANY)
Rotary plant growth accelerating apparatus — weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Molten salt pyrolysis of latex — synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
PLASMA ACCELERATION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32588
PLASMA ACCELERATORS
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33297
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29194
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
PLASMA ARC WELDING
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
PLASMA CONTROL
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Self-energized plasma compressor — for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
PLASMA CYLINDERS
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
PLASMA DENSITY
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10619
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30158
Hollow cathode apparatus
[NASA-CASE-NPO-15980-1] c 33 N85-21491
PLASMA DIAGNOSTICS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10898-1] c 75 N74-30156
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29189

PLASMA DYNAMICS
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Self-energized plasma compressor — for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA ENGINES
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

PLASMA GENERATORS
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34681
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
Self-energized plasma compressor — for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17961
Continuous plasma laser — method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718

PLASMA JETS
Method of preparing water purification membranes — polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Combination automatic-starting electrical plasma torch and gas shutoff valve — for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Plasma cleaning device — designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

PLASMA LAYERS
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION
Method of making dished ion thruster grids
[NASA-CASE-LEW-11884-1] c 20 N75-18310
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13981-1] c 20 N85-21256
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

PLASMA RADIATION
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

PLASMA SHEATHS
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718
Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147

PLASMA TEMPERATURE
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13928-1] c 37 N79-11405

PLASMAS (PHYSICS)
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

PLASMONS
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

PLASTIC COATINGS
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39805
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27408
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13381-1] c 27 N86-31727

PLASTIC DEFORMATION
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-30740
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC TAPES
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29029
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03482] c 15 N71-22713
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Molding apparatus — for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

PLATENS
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

PLATES
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14778-1] c 37 N90-15445
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21099

PLATES (STRUCTURAL MEMBERS)
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Floating nut retention system
[NASA-CASE-MSC-18808-1] c 37 N80-23853
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27830
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11811-1] c 74 N87-28416

PLATFORMS
Expendable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

PLATING
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Scanning nozzle plating system — for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

PLATINUM
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27398

PLATINUM ALLOYS
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35339

PLAYBACKS
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-18246

PLENUM CHAMBERS
Air cushion lift pad, Patent
[NASA-CASE-MFS-14685] c 31 N71-15803
Gas filter mounting structure
[NASA-CASE-MSC-13297] c 14 N72-23457
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14805
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28566

PLETHYSMOGRAPHY
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10818-1] c 35 N76-24525
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27576

PLOTTERS
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTTING
Instrument for measuring potentials on two dimensional electric field plots, Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES
Cascade plug nozzle — for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-16117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09478] c 14 N69-27503
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Gas regulator Patent
[NASA-CASE-NPO-10296] c 12 N71-17661
Heated porous plug microthruster
[NASA-CASE-GSC-10940-1] c 28 N72-18796

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

PLUMES
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

PNEUMATIC CONTROL
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11981-1] c 05 N73-32014
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

PNEUMATIC EQUIPMENT
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N80-25346
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20489

POINT SOURCES
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04108] c 14 N70-40240
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS
Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
All sky pointing attitude control system
[NASA-CASE-ARC-10718-1] c 35 N77-20399
Magnetic suspension and pointing system
[NASA-CASE-LAR-11989-2] c 37 N78-27424
Magnetic suspension and pointing system — on a carrier vehicle
[NASA-CASE-LAR-11989-1] c 35 N79-26372
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21961

POINTS (MATHEMATICS)
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

POLAR ORBITS
Carbehost satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15678

POLARIMETERS
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-09693] c 23 N71-16101
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

POLARIMETRY
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

POLARITY
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

POLARIZATION (WAVES)
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-15278
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

POLARIZED ELECTROMAGNETIC RADIATION
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Coaxial phased array antenna
[NASA-CASE-HSC-16800-1] c 32 N81-14187
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

POLARIZED LIGHT
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-29687

POLARIZED RADIATION
Microwave limb sounder — measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

POLARIZERS
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-30647

POLES
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17039

POLISHING
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

POLLUTION CONTROL
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-16457
Combustion engine — for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

POLLUTION MONITORING
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants — through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Automated syringe sampler — remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

POLYAMIDE RESINS
Vitra-violet process for producing flame resistant polyamides and products produced thereby — protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Heat resistant protective hand covering
[NASA-CASE-MSC-20361-1] c 54 N84-28484
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-30123
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Fire and heat resistant laminating resins based on malemeido and citraconmido substituted 1 -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

POLYBENZIMIDAZOLE
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

POLYBUTADIENE
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

POLYCARBONATES
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Poly(carbonate-imide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16825

POLYCRYSTALS
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N78-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N79-24609
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28080-1] c 27 N87-21111

POLYESTERS
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29872
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYETHER RESINS
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYIMIDE RESINS
Polyimide adhesives
[NASA-CASE-LAR-11387-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17305
Low density bismaleimide-carbon microballoon composites — aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12842-1] c 27 N81-29029

Low temperature cross linking polyimides
[NASA-CASE-LEW-12676-2] c 27 N83-29392
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334

POLYIMIDES

Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12912
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N79-32261
Ambient cure polyimide foams — thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides — flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides — reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-30124
Elastomer toughened polyimide adhesives — bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11429-1] c 23 N86-19376
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13394-1] c 27 N86-20561
Poly(carbonate-imide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Process for preparing essentially colorless polyimide film containing phenony-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N89-23692
Novel polyimide compositions based on 4,4'-isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
Process for lowering the dielectric constant of polyimides using diemic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

POLYISOBUTYLENE

Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10693] c 27 N73-22710

POLYISOPRENES

Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

POLYMER CHEMISTRY

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Infusible silazane polymer and process for producing same — protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
In-situ cross linking of polyvinyl alcohol — application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
Polymeric compositions and their method of manufacture — forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Process for the preparation of polycarboranylphosphazenes — thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Phosphorus-containing bismide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
Amine terminated bisesperimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Novel ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N88-29984
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13998-1] c 23 N89-11814
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

POLYMER MATRIX COMPOSITES

Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N79-27180
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N89-23692
Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334

POLYMERIC FILMS

Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09783] c 14 N71-20481
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Thermodielectric radiometer utilizing polymer film
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[NASA-CASE-XLA-00888] c 31 N70-34135
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[NASA-CASE-ARC-10098-1] c 06 N71-24739
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[NASA-CASE-NPO-10768] c 06 N71-27254
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[NASA-CASE-NPO-10768-2] c 06 N72-27144
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[NARA-CASE-LEW-13135-2] c 27 N81-24257
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[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
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[NASA-CASE-LAR-13669-1] c 35 N89-12841
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[NASA-CASE-LAR-13636-1] c 31 N90-19427
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[NASA-CASE-NPO-17480-1-CU] c 25 N90-26068

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[NASA-CASE-LEW-10993-1] c 17 N71-15468
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[NASA-CASE-XNP-04338] c 17 N71-23046
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[NASA-CASE-XNP-03972] c 15 N71-23048
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[NASA-CASE-MFS-20044] c 14 N71-28693
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Porous electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32109
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[NASA-CASE-GSC-11367-1] c 44 N74-19692
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[NASA-CASE-MSC-12731-1] c 37 N78-25426
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[NASA-CASE-LEW-12441-1] c 34 N79-13269
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[NASA-CASE-LEW-12131-3] c 37 N82-19540
Densification of porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-16737-1] c 24 N83-13171
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[NASA-CASE-MSC-16736-1] c 24 N83-13172
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
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[NASA-CASE-NPO-18544-1-CU] c 35 N87-22953

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[NASA-CASE-XLE-00455] c 29 N70-36197

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[NASA-CASE-LEW-11531] c 15 N71-14932
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
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[NASA-CASE-XKS-07953] c 15 N71-28134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-06114-2] c 15 N71-28148
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-28654
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03881] c 15 N71-33519
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23385
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[NASA-CASE-MFS-20774] c 14 N73-19420
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-23263-1] c 37 N75-33395
Method of peening and portable peening gun
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[NASA-CASE-NPO-13274-1] c 25 N79-10183
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Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
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Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21040
Two-dimensional scanner apparatus — flaw detector in small flat plates
[NASA-CASE-MFS-25887-1] c 35 N84-22928
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[NASA-CASE-NPO-13598-1] c 35 N84-33766
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Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N86-21631
Portable 80 degree proof loading device
[NASA-CASE-MSC-20250-1] c 38 N86-19581
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

PORTABLE LIFE SUPPORT SYSTEMS
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[NASA-CASE-MSC-16182-1] c 54 N90-1[illegible]

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Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-10043

POSITION (LOCATION)
Position location system and method Patent
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Position location and data collection system and method Patent
[NASA-CASE-GSC-10093-1] c 30 N71-19090
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[NASA-CASE-XKS-07814] c 15 N71-27087
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33888
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30380
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Aircraft-mounted, crash-activated transmitter device
[NASA-CASE-MFS-19809-3] c 03 N76-32140
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10887-1] c 33 N77-31404
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
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[NASA-CASE-MFS-29008-1] c 35 N85-20300
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16985-1-CU] c 71 N90-12289

POSITION INDICATORS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-06256] c 14 N69-27432
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05880] c 14 N71-17585
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Meteoroid impact position locator set for manned space station
[NASA-CASE-LAR-10679-1] c 35 N75-33397
Position determination systems — using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12583-1] c 17 N76-21250
Solar cell angular position transducer
[NASA-CASE-LAR-11988-1] c 44 N[illegible]
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22870
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12982-1] c 32 N88-14374

POSITION SENSING
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

POSITIONING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N90-26341
Method and apparatus for applying a mechanical force to surface
[NASA-CASE-LAR-14009-1] c 37 N90-27115

POSITIONING DEVICES (MACHINERY)
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408

POSITIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

POSITRONS
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N90-27472

POTABLE WATER
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Degassifying and mixing apparatus for liquids — potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

POTASSIUM SILICATES
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

POTENTIOMETERS
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

POTENTIOMETERS (INSTRUMENTS)
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23609
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Rotary control lock
[NASA-CASE-NPO-17453-1-CU] c 37 N89-13787

POTTING COMPOUNDS
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

POWDER (PARTICLES)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

POWDER METALLURGY
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
Cermet composition and method of fabrication — heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493

POWDERED ALUMINUM
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

POWER AMPLIFIERS
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

POWER CONDITIONING
Module failure isolation circuit for paralleled inverters — preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095

POWER CONVERTERS
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693

POWER EFFICIENCY
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 26 N70-41576
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13961-2] c 33 N86-21742
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

POWER FACTOR CONTROLLERS
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25961-1] c 33 N85-22877

POWER GAIN
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16086
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

POWER LIMITERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

POWER LINES
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Motor run-up system — power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

POWER REACTORS
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

POWER SERIES
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-16693
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

POWER SPECTRA
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

POWER SUPPLIES
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

POWER SUPPLY CIRCUITS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39868
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
LC-oscillator with automatic stabilized amplitude via bias current control — power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Integrable power gyrator — with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23968-1] c 33 N81-27395
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

PREBURNERS
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

PRECESSION
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

PRECIPITATION (CHEMISTRY)
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

PRECIPITATORS
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

PRECISION
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

PREDICTIONS
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

PREFLIGHT OPERATIONS
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545

PREFORMS
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114

PRELAUNCH TESTS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

PREPOLYMERS
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups — for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

PREPREGS
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229

PRESSURE
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430

PRESSURE CHAMBERS
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Whole body measurement systems — for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344

PRESSURE DISTRIBUTION
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Thermal barrier pressure seal — shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Continuous self-locking spiral wound seal — for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

PRESSURE DRAG
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

PRESSURE DROP
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

PRESSURE EFFECTS
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Evacuated, displacement compression mold — of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Internally supported flexible duct joint — device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Fluid pressure balanced seal
[NASA-CASE-XGS-01266-1] c 37 N79-33469
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

PRESSURE GAGES
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

PRESSURE GRADIENTS
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

PRESSURE HEADS
Head for high speed spinner having a vacuum chuck — holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482

PRESSURE MEASUREMENT
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
High-temperature microphone system — for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface — using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Method of and apparatus for measuring temperature and pressure — atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423

PRESSURE REDUCTION
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254

PRESSURE REGULATORS
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351

Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Pressure control valve — inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Apperatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N90-17252

PRESSURE SENSORS
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41661
Inertia diaphragm pressure transducer Patent
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[NASA-CASE-GSC-11514-1] c 03 N72-24037
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Nonflammable coating compositions — for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
Fused silicide coatings containing discrete particles for protecting niobium alloys — used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
Sprayable low density ablator and application process
[NASA-CASE-MFS-23508-1] c 24 N78-24290
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Infusible silazane polymer and process for producing same — protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Corrosion resistant thermal barrier coating — protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Heat sealable, flame and abrasion resistant coated fabric — clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Method of protecting a surface with a silicon-slurry/aluminide coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Silicon-slurry/aluminide coating — protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Covering solid, film cooled surfaces with a dupiex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Corrosion resistant coating
[NASA-CASE-NPO-15926-1] c 26 N85-29005
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18652-1] c 37 N85-29283
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

PROTECTORS
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

PROTEINS
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-26206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-26182-1] c 76 N90-24169
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

PROTOCOL (COMPUTERS)
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137

PROTON FLUX DENSITY
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

PROXIMITY
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

PSEUDOMONAS
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

PSEUDONOISE
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudo-noise test set for communication system evaluation — test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

PULLEYS
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

PULLING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PULMONARY CIRCULATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

PULMONARY FUNCTIONS
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

PULSE AMPLITUDE
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

PULSE AMPLITUDE MODULATION
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

PULSE CODE MODULATION
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system — synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Multifunction audio digitizer — producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE COMMUNICATION
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

Memory-based frame synchronizer — for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE DURATION
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 06 N71-12500
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

PULSE DURATION MODULATION
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

PULSE FREQUENCY MODULATION
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

PULSE GENERATORS
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Method and apparatus for nondestructive testing — using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Active lamp pulse driver circuit — optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE HEATING
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

PULSE MODULATION
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE RATE
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479

PULSED LASERS
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Active lamp pulse driver circuit — optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PULSED RADIATION
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

PULSES
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408

PULTRUSION
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867

PUMP SEALS
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Spiral groove seal — for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

PUMPS
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Magnetocaloric pump — for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

PUNCHED CARDS
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PUNCHES
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

PURGING
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

PURIFICATION
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

PURITY
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

PUSH-PULL AMPLIFIERS
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

PUSHING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PYLONS
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

PYRIDINES
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

PYROELECTRICITY
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

PYROGEN
Molded composite pyrogen igniter for rocket motors — solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275

PYROLYSIS
Molten salt pyrolysis of latex — synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Thermal reactor — liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

PYROLYTIC GRAPHITE
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Ion sputter textured graphite — anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

PYROLYTIC MATERIALS
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15823

PYROMETERS
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
PYROTECHNICS
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
PYRRONES (TRADEMARK)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Q

Q SWITCHED LASERS
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
Q VALUES
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
QUADRANTS
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764
QUADRATIC PROGRAMMING
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
QUADRATURES
Automatic quadrature control and measuring system — using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
QUALITATIVE ANALYSIS
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Analysis of volatile organic compounds — trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sample collection and distribution system — qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N90-16410
QUANTITATIVE ANALYSIS
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Analysis of volatile organic compounds — trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
QUANTUM THEORY
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
QUANTUM WELLS
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
QUARTZ
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Ampoule sealing apparatus and process — for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
QUARTZ LAMPS
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Light shield and cooling apparatus — high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
QUINOXALINES
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups — for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

R

RACKS (FRAMES)
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Thrust-isolating mounting — characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Automated syringe sampler — remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
RADAR ANTENNAS
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Variable beamwidth antenna — with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
RADAR ATTENUATION
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
RADAR BEACONS
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
RADAR BEAMS
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
RADAR CROSS SECTIONS
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360
Almond test body — for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
RADAR DATA
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
RADAR DETECTION
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
RADAR ECHOES
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
RADAR EQUIPMENT
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
RADAR IMAGERY
Method of locating persons in distress — by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
RADAR MEASUREMENT
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
RADAR RANGE
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
RADAR RECEIVERS
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
RADAR RECEPTION
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
RADAR REFLECTORS
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Method of locating persons in distress — by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
RADAR TARGETS
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
RADAR TRACKING
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
RADAR TRANSMITTERS
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
RADIAL DISTRIBUTION
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12987-1] c 35 N84-22932
RADIAL FLOW
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
RADIANCE
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
RADIANT COOLING
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Radiative cooler — spacecraft radiators
[NASA-CASE-NPO-15485-1] c 34 N84-22903
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N89-14348
RADIANT FLUX DENSITY
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
RADIANT HEATING
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
High thermal power density heat transfer — thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399

RADIATION
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

RADIATION ABSORPTION
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

RADIATION COUNTERS
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26049
Particle parameter analyzing system — x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIATION DAMAGE
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11082
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof — and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATION DETECTORS
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22680
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Wide angle sun sensor — consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

RADIATION DISTRIBUTION
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

RADIATION DOSAGE
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION EFFECTS
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892

RADIATION HARDENING
Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329

RADIATION HAZARDS
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION MEASUREMENT
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

RADIATION MEASURING INSTRUMENTS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-06266] c 14 N69-27432
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

RADIATION MEDICINE
Method of producing I-123 — by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

RADIATION PROTECTION
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20160] c 16 N72-12440
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof — and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

RADIATION SHIELDING
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Light shield and cooling apparatus — high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

RADIATION SOURCES
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
High powered arc electrodes — producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595

RADIATION SPECTRA
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

RADIATION THERAPY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

RADIATION TOLERANCE
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATIVE HEAT TRANSFER
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Capillary radiator Patent
[NASA-CASE-XLE 03307] c 33 N71-14035
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Apparatus and method for heating a material in a transparent ampoule — crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

RADIATORS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

RADIO ANTENNAS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

RADIO ASTRONOMY
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO BEACONS
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374
RADIO COMMUNICATION
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
RADIO CONTROL
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
RADIO EQUIPMENT
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
RADIO FREQUENCIES
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733
RADIO FREQUENCY DISCHARGE
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
RADIO FREQUENCY HEATING
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
RADIO FREQUENCY INTERFERENCE
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23596
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
RADIO FREQUENCY SHIELDING
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
RADIO INTERFEROMETERS
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
RADIO PROBING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
RADIO RECEIVERS
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
RADIO RELAY SYSTEMS
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
RADIO SIGNALS
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
RADIO SOURCES (ASTRONOMY)
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
RADIO STARS
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
RADIO TELEMETRY
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
RADIO TELESCOPES
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
RADIO TRANSMITTERS
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
RADIO WAVES
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
RADIOACTIVE ISOTOPES
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
RADIOBIOLOGY
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
RADIOGRAPHY
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
RADIOLOGY
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
RADIOLYSIS
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
RADIOMETERS
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Thermodielectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
RADIOSONDES
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
RAIN
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
RAMJET ENGINES
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
RAMPS (STRUCTURES)
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
RANDOM ACCESS MEMORY
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
RANDOM LOADS
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
RANDOM NOISE
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
RANDOM NUMBERS
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
RANGE (EXTREMES)
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
RANGE AND RANGE RATE TRACKING
Range and range rate system
[NASA-CASE-MSC-20067-1] c 36 N88-24958
RANGE FINDERS
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
RANGEFINDING
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Code regenerative clean-up loop transponder for a ranging-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Orbital and entry tracking accessory for globes — to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

RARE EARTH COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
High modulus rare earth and beryllium containing silicate glass compositions — for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

RARE GASES
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RAREFIED GASES
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

RASTER SCANNING
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

RATES (PER TIME)
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

RC CIRCUITS
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

REACTION BONDING
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29536

REACTION CONTROL
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

REACTION KINETICS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

REACTION PRODUCTS
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

REACTION TIME
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

REACTION WHEELS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

REACTIVITY
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

REACTOR CORES
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

REACTOR DESIGN
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Thermal reactor — liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

REACTOR MATERIALS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

REACTOR PHYSICS
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

READ-ONLY MEMORY DEVICES
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

READERS
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

READOUT
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

REAGENTS
Method of dispensing reagent chemicals in space
[NASA-CASE-LAR-13607-1-CU] c 29 N88-29048

REAL TIME OPERATION
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Carbon monoxide monitor — using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Real time reflectometer — measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Methods and apparatus for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N90-26073
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27266
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385

REATTACHED FLOW
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

REBREATHING
Portable breathing system — a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

RECEIVERS
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

RECIPROCATION
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Reciprocating linear motor
[NASA-CASE-GSC-12773-1] c 33 N87-23904

RECOMBINATION REACTIONS
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

RECONSTRUCTION
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

RECORDING HEADS
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

RECORDING INSTRUMENTS
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Measuring probe position recorder
[NASA-CASE-LAR-10606-1] c 35 N74-32877

RECOVERABILITY
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135

RECOVERABLE LAUNCH VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161

RECOVERABLE SPACECRAFT
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

RECOVERY PARACHUTES
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

RECTANGULAR PANELS
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040

Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214

RECTIFIERS

Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

RECTUM

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

REDOX CELLS

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14026-1] c 44 N86-19721
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

REDUCED GRAVITY

Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-1] c 35 N89-12843
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

REDUCTION

Method and apparatus for reducing speckle
[NASA-CASE-LAR-13771-1] c 38 N89-14428

REDUCTION (CHEMISTRY)

Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Process for making anhydrous metal halides
[NASA-CASE-LEW-11660-1] c 37 N76-18458
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

REDUNDANCY

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

REDUNDANT COMPONENTS

Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

REELS

Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

REENTRY COMMUNICATION

Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

REENTRY SHIELDING

Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Protected isotope heat source — for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Fibrous refractory composite insulation — shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Adjustable high emittance gap filler — reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Method for repair of thin glass coatings — on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-16828

REENTRY TRAJECTORIES

Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

REENTRY VEHICLES

Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13896
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

REFERENCE SYSTEMS

Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

REFINING

Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946

REFLECTANCE

Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280

REFLECTED WAVES

Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Reflected-wave maser — low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512

REFLECTING TELESCOPES

Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

REFLECTION

Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector — for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

REFLECTOMETERS

Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Real time reflectometer — measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

REFLECTOR ANTENNAS

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

REFLECTORS

Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
Ultrasonic angle beam standard reflector — ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

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The 2 deg/90 deg laboratory scattering photometer — particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Chromatically corrected virtual image visual display — reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

REFRACTORY COATINGS

Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method for repair of thin glass coatings — on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266

REFRACTORY MATERIALS
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Prestressed refractory structure Patent
[NASA-CASE-XNP-02688] c 18 N71-21066
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature resistant cermet and ceramic compositions — for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Fibrous refractory composite insulation — shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Adjustable high emittance gap filler — reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Attachment system for silica tiles — thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Densification of porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566

REFRACTORY METALS
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Fused silicide coatings containing discrete particles for protecting niobium alloys — used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of making an apertured casting — using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493

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Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

REFRIGERATING MACHINERY
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[NASA-CASE-NPO-10309] c 15 N69-23190
Refrigeration apparatus Patent
[NASA-CASE-XNP-06877] c 15 N71-23025
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

REFRIGERATORS
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Thermal compensator for closed-cycle helium refrigerator — assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

REFUELING
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

REGENERATION (ENGINEERING)
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Regenerative Cu La zeolite supported desulfurizing sorbents
[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098

REGENERATION (PHYSIOLOGY)
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027

REGENERATIVE COOLING
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417

REGENERATIVE FUEL CELLS
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

REGENERATORS
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577

REGISTERS (COMPUTERS)
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 06 N71-33110
Priority interrupt system — comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800

REINFORCED PLASTICS
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125

REINFORCEMENT (STRUCTURES)
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370

REINFORCEMENT RINGS
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

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Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33268
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Crystalline polyimides — reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
High modulus rare earth and beryllium containing silicate glass compositions — for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11416-1] c 24 N84-11213
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196

RELAXATION OSCILLATORS
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

RELAY SATELLITES
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

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Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Slide release mechanism — for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

RELIABILITY ANALYSIS
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

RELIABILITY ENGINEERING
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Inspection gage for bores Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Reconfiguring redundancy management
[NASA-CASE-MSC-18496-1] c 60 N82-29013
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
RELIEF MAPS
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
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Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
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Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32580
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
REMOTE HANDLING
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-26495
Apparatus for remote handling of materials — mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
REMOTE MANIPULATOR SYSTEM
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
REMOTE SENSING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764
REMOTE SENSORS
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
Penetrometer — for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Method of and apparatus for measuring temperature and pressure — atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
REMOTELY PILOTED VEHICLES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076
REMOVAL
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
REPEATERS
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
REPLACING
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
RESCUE OPERATIONS
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Rescue inflation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Method of locating persons in distress — by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
RESEARCH AIRCRAFT
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
RESEARCH AND DEVELOPMENT
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
RESEARCH VEHICLES
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
RESIDUAL STRESS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
RESILIENCE
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
RESIN BONDING
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Covered silicon solar cells and method of manufacture — with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of manufacture of bonded fiber flywheel — fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
RESIN MATRIX COMPOSITES
Phosphorus-containing bismide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
High performance mixed bismide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Novel ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N88-29984
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N89-23692
Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
Method of controlling a resin curing process — for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
RESINS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

Phosphorus-containing imide resins
[NASA-CASE-ARC-11366-1] c 27 N83-31854
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881

RESISTANCE
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

RESISTANCE HEATING
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

RESISTORS
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

RESOLUTION
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

RESOLVERS
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Magnetic heading reference
[NASA-CASE-LAR-12838-1] c 04 N84-14132
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

RESONANCE
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

RESONANT FREQUENCIES
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635

RESONANT VIBRATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

RESONATORS
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

RESOURCE ALLOCATION
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976

RESPIRATION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

RESPIRATORS
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

RESPIRATORY RATE
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPIROMETERS
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPONSE TIME (COMPUTERS)
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976

RESPONSES
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

RESTARTABLE ROCKET ENGINES
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992

RESUSCITATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

RETAINING
Floating nut retention system
[NASA-CASE-MSC-16936-1] c 37 N80-23653
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

RETARDERS (DEVICES)
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

RETARDING
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

RETICLES
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886

RETINAL IMAGES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

RETRACTABLE EQUIPMENT
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

RETROFIRING
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

RETROREFLECTION
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764

RETROREFLECTORS
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

RETROROCKET ENGINES
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

REUSABLE HEAT SHIELDING
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

REUSABLE ROCKET ENGINES
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584

REUSABLE SPACECRAFT
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

REUSE
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323

REVERSE OSMOSIS
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

REVERSED FLOW
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

REYNOLDS NUMBER
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

REYNOLDS STRESS
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517

RHENIUM
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

RHEOMETERS
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357

RHOMBOIDS
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

RIBBONS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35668
Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934

RIBLETS
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

RIBOFLAVIN
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

RIBS (SUPPORTS)
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

RICE
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

RIDING QUALITY
Ride quality meter
[NASA-CASE-LAR-12682-1] c 35 N84-12445

RIGID ROTORS
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

RIGID STRUCTURES
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N88-30130
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

RIGID WINGS
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863

RIMS
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

RING CURRENTS
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

RING STRUCTURES
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N76-17678
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-26618
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

RING WINGS
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315

RIPPLES
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

RIVETS
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

ROBOT ARMS
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

ROBOT DYNAMICS
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

ROBOTICS
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16786-1-CU] c 37 N89-13785
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
Power saw
[NASA-CASE-MSC-21469-1] c 37 N90-26340
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

ROBOTS
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N90-27110

ROBUSTNESS (MATHEMATICS)
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

ROCKET ENGINE CASES
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143

ROCKET ENGINE CONTROL
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

ROCKET ENGINE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298

ROCKET ENGINES
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N89-11724
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130

ROCKET EXHAUST
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

ROCKET FIRING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663

ROCKET FLIGHT
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691

ROCKET LAUNCHING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Controlled release device Patent
[NASA-CASE-XKS-03336] c 15 N71-24043

ROCKET LININGS
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

ROCKET NOZZLES
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21066
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Method and device for cooling Paten'
[NASA-CASE-HQN-00938] c 31 N71-29053
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

ROCKET OXIDIZERS
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

ROCKET PROPELLANTS
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

ROCKET TEST FACILITIES
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

ROCKET THRUST
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

ROCKET VEHICLES
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

ROCKET-BORNE INSTRUMENTS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-06266] c 14 N69-27432

ROCKETS
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

ROCKS
Rock drill for recovering samples
[NASA-CASE-XNP-07476] c 14 N69-21923
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

RODS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083

ROLL
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

ROLLER BEARINGS
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

ROLLERS
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21597
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

ROLLING CONTACT LOADS
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189

ROLLING MOMENTS
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

ROOM TEMPERATURE
Coating process
[NASA-CASE-XNP-06508] c 18 N89-39895

ROTARY GYROSCOPES
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

ROTARY STABILITY
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

ROTARY WING AIRCRAFT
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

ROTARY WINGS
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11016
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

ROTATING BODIES
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14156
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

ROTATING CYLINDERS
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

ROTATING DISKS
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21352
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-06266] c 14 N69-27432
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N90-10310

ROTATING ELECTRICAL MACHINES
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

ROTATING ENVIRONMENTS
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

ROTATING GENERATORS
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828

ROTATING MIRRORS
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

ROTATING SHAFTS
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255

Spiral groove seal — for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Digital servo controller — for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Ergometer calibrator — for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Rotary leveling base platform
[NASA-CASE-ARC-10961-1] c 37 N78-27425
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Resilient seal ring assembly with spring means applying force to wedge member — cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28064
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Rotary control lock
[NASA-CASE-NPO-17453-1-CU] c 37 N89-13787
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

ROTATION
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21482
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Rotary control lock
[NASA-CASE-NPO-17453-1-CU] c 37 N89-13787
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N90-27261

ROTOR AERODYNAMICS
Acoustically swept rotor — helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

ROTOR BLADES
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

ROTOR BLADES (TURBOMACHINERY)
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Supersonic fan blading — noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Blade retainer assembly
[NASA-CASE-LEW-12606-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

ROTOR LIFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORCRAFT AIRCRAFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTORS
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00065] c 28 N70-39895
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Welding blades to rotors
[NASA-CASE-LEW-10439-1] c 15 N73-28515
Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-28841

RUBBER
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

RUBBER COATINGS
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 18 N72-12440

RUNWAY ALIGNMENT
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUNWAY LIGHTS
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUPTURING
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15980
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

S

SABOT PROJECTILES
Hypervelocity gun — using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Totally confined explosive welding — apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19043
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

SAFETY FACTORS
Safety flywheel — using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527

SAHA EQUATIONS
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

SALT BATHS
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

SAMARIUM
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

SAMPLERS
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Automated syringe sampler — remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SAMPLES
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

SAMPLING
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Rock sampling — apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling — method for controlling particle size distribution
[NASA-CASE-XNP-09758] c 46 N74-23069
Apparatus for microbiological sampling — including automatic swabbing
[NASA-CASE-LAR-11088-1] c 35 N75-12272
Automatic biowaste sampling
[NASA-CASE-MSC-14840-1] c 54 N76-14804
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384

Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Moisture content and gas sampling device
[NASA-CASE-MSC-18666-1] c 35 N85-29213
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17626-1-CU] c 32 N89-28684
Method and apparatus for determining time, direction and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771

SANDWICH STRUCTURES
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

SAPPHIRE
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

SATELLITE ANTENNAS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

SATELLITE ATTITUDE CONTROL
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00436] c 21 N70-35089
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

SATELLITE COMMUNICATION
Satellite communication system and method Patent
[NASA-CASE-GSC-10119-1] c 07 N71-24821
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

SATELLITE CONTROL
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292

SATELLITE DESIGN
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081

SATELLITE INSTRUMENTS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

SATELLITE NETWORKS
Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

SATELLITE OBSERVATION
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

SATELLITE ORBITS
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

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Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
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[NASA-CASE-HQN-00936] c 31 N71-29050
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

SATELLITE PERTURBATION
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SATELLITE POWER TRANSMISSION
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

SATELLITE ROTATION
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

SATELLITE TELEVISION
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

SATELLITE TRACKING
Tracking receiver Patent
[NASA-CASE-XGS-06679] c 10 N71-21473
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

SATELLITE TRANSMISSION
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

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Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SATELLITE-BORNE PHOTOGRAPHY
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SATURABLE REACTORS
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

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Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

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Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

SAWTOOTH WAVEFORMS
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

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Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

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Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06029] c 09 N71-23189
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
System and method for character recognition
[NASA-CASE-NPO-11397-1] c 74 N81-19896

SCATTERING CROSS SECTIONS
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20034
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360

SCENE ANALYSIS
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

SCHLIEREN PHOTOGRAPHY
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

SCHMIDT CAMERAS
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

SCHMIDT TELESCOPES
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
SCHOOLS
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
SCHOTTKY DIODES
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N76-13526
Solar cells having integral collector grids
[NASA-CASE-LEW-12619-1] c 44 N79-11467
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329
SCOOPS
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
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Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
SCRAMBLING (COMMUNICATION)
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
SCREWS
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
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High pressure gas filter system Patent
[NASA-CASE-MFS-12906] c 14 N71-17588
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
SEA ICE
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
SEA STATES
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
SEA SURFACE TEMPERATURE
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
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Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
SEALING
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Valve seal
[NASA-CASE-NPO-10606] c 15 N72-25451
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
SEALS (STOPPERS)
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Rotating shaft seal Patent
[NASA-CASE-XNP-02662-1] c 15 N71-26294
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18316
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Fluid pressure balanced seal
[NASA-CASE-XGS-01266-1] c 37 N79-33469
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-26841
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-10825
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
SEAMS (JOINTS)
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
SEAT BELTS
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
SEATS
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
SECONDARY EMISSION
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
SECONDARY FLOW
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
SECTORS
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[NASA-CASE-LEW-11076-2] c 37 N74-32921
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Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
SEGMENTS
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15587
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
SEISMIC WAVES
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
SEISMOGRAPHS
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
SELECTORS
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
SELF ADAPTIVE CONTROL SYSTEMS
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
SELF ALIGNMENT
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
SELF ERECTING DEVICES
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Foldable conduit Patent
[NASA-CASE-XLE-00820] c 32 N70-41579
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
SELF FOCUSING
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
SELF LUBRICATING MATERIALS
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710

Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

SELF LUBRICATION
Method of making bearing materials — self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SELF MANEUVERING UNITS
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

SELF PROPAGATION
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

SELF SEALING
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SELF TESTS
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24833
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

SEMICONDUCTOR DEVICES
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Electrical power generating system — for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17635-1-CU] c 76 N90-27518

SEMICONDUCTOR DIODES
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

SEMICONDUCTOR JUNCTIONS
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

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Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-26796
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733

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Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17918
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
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[NASA-CASE-XLE-10715] c 26 N71-23292
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[NASA-CASE-LAR-10728-1] c 14 N73-12445
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Vapor deposition apparatus — semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
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[NASA-CASE-LAR-12958-1] c 44 N84-23019
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
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[NASA-CASE-NPO-15813-2] c 76 N87-15662
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[NASA-CASE-NPO-15800-2] c 76 N87-23286
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
Floating emitter solar cell
[NASA-CASE-NPO-16487-1-CU] c 33 N87-23879
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
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[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
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Tailorable infrared sensing device with strain layer superlattice structure
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Condition sensor system and method
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SENSORS
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Medical subject monitoring systems — multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

SENSORY PERCEPTION
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

SEPARATED FLOW
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Flow separation detector
[NASA-CASE-ARC-11048-1] c 35 N78-14364
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

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Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Centrifugal typhobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30808
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Counter pumping debris excluder and separator — gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21266
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05301-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

SEQUENCING
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22185
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

SEQUENTIAL ANALYSIS
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

SEQUENTIAL COMPUTERS
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SEQUENTIAL CONTROL
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-25870-1] c 33 N84-22984
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23836

SERUMS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

SERVICE LIFE
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

SERVOAMPLIFIERS
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147

SERVOCONTROL
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27480
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

SERVOMECHANISMS
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975

SERVOMOTORS
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14083-1] c 35 N80-20563
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27829

SEWAGE TREATMENT
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11834
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

SHADES
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

SHAFTS (MACHINE ELEMENTS)
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Ratchet mechanism Patent
[NASA-CASE-MFS-12605] c 15 N71-17805
Frictionless universal joint Patent
[NASA-CASE-NPO-10648] c 15 N71-28467
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29486
High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11955-1] c 07 N78-25090
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N90-26342

SHAKERS
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

SHALE OIL
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

SHALES
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SHAPE CONTROL
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25383
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28617

SHAPE MEMORY ALLOYS
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

SHAPED CHARGES
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

SHAPERS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721

SHAPES
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

SHARKS
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

SHARPNESS
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

SHEAR CREEP
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

SHEAR FLOW
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

SHEAR PROPERTIES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SHEAR STRESS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Bonded joint and method — for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Delamination test apparatus and method
[NASA-CASE-LAR-13965-1] c 24 N89-28586
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

SHEARING
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHELL ANODES
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

SHELLS (STRUCTURAL FORMS)
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34560

SHIELDING
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22196
System for the measurement of ultra-low stray light levels — determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-26139-1] c 29 N87-18679
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26165
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

SHIFT REGISTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21109
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Selective data segment monitoring system — using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SHIP HULLS
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

SHOCK ABSORBERS
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

SHOCK LOADS
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHOCK TUBES
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SHOCK WAVE PROFILES
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Shock position sensor for supersonic inlets — measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

SHOES
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39896
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
Thermal switch disc for short circuit protecion of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008

SHOT PEENING
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

SHOULDERS
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

SHROUDED NOZZLES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

SHROUDED TURBINES
Composite seal for turbomachinery — backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18316
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26656
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N86-23978

SHROUDS
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Composite seal for turbomachinery — backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18316
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHUTTERS
High speed shutter — electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

SHUTTLE DERIVED VEHICLES
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25879-1] c 18 N84-27787

SIDE INLETS
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SIDEBANDS
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567

SIDELOBE REDUCTION
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYSIS
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Method and apparatus for a single channel digital communications system — synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Differential phase shift keyed signal receiver
[NASA-CASE-MSC-14066-1] c 33 N74-27705

Correlation type phase detector — with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

SIGNAL ANALYZERS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SIGNAL DETECTION

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10069] c 23 N72-17747
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

SIGNAL DETECTORS

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Pulse transducer with artifact signal attenuator — heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

SIGNAL DISTORTION

Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

SIGNAL ENCODING

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SIGNAL GENERATORS

Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11261
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11387] c 10 N71-26374
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27336
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11084] c 07 N72-11150
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Digital servo control of random sound test excitation — in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Pseudo-noise test set for communication system evaluation — test signals
[NASA-CASE-MFS-22571-1] c 35 N75-21582
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
Underwater seismic source — for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
Frequency translating phase conjugation circuit for active retrodirective antenna array — microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Magnetic heading reference
[NASA-CASE-LAR-12636-1] c 04 N84-14132
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

SIGNAL MEASUREMENT

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

SIGNAL MIXING

Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

SIGNAL PROCESSING

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Difference circuit Patent
[NASA-CASE-XNP-09274] c 10 N71-13537
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25665
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25666
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Measurement system
[NASA-CASE-MFS-20656-1] c 14 N73-30386
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Apparatus and method for processing Korotkov sounds — for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Continuous Fourier transform method and apparatus — for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10486-1] c 60 N75-13539
Signal conditioning circuit apparatus — with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Filtering device — removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
System for measuring Reynolds in a turbulently flowing fluid — signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32336
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

Electrochemical detection device — for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Reconfiguring redundancy management
[NASA-CASE-MSC-18408-1] c 60 N82-29013
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15619-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17629-1-CU] c 32 N89-28684
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N89-28829
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17107
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20290
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Closed-loop autonomous docking system
[NASA-CASE-MFS-26421-1] c 18 N90-26861
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

SIGNAL RECEPTION

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Scan converting video tape recorder
[NASA-CASE-NPO-10186-2] c 35 N76-16391
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

SIGNAL REFLECTION

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

SIGNAL STABILIZATION

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

SIGNAL TO NOISE RATIOS

System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

SIGNAL TRANSMISSION

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00066] c 09 N70-33182
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01308] c 07 N71-20814
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03832] c 09 N71-23311
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Modulator for tone and binary signals — phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Automatic transponder — measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
Precise RF timing signal distribution to remote stations — fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability amplifier
[NASA-CASE-GSC-12648-1] c 33 N83-34191
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-15675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20290

SIGNATURE ANALYSIS

Multispectral imaging and analysis system — using charge coupled devices and linear arrays
[NASA-CASE-NPO-13991-1] c 43 N77-17288

SILANES

Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Process for preparation of high-molecular- weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-29807
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Thermal reactor — liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process for producing tris(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N86-29040

SILICA GEL

Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13478-1-CU] c 76 N87-29390

SILICA GLASS

Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions — for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

SILICATES

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N78-31347

SILICIDES

Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040

Fused silicide coatings containing discrete particles for protecting niobium alloys — used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

SILICON

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Covered silicon solar cells and method of manufacture — with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of producing silicon — gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of protecting a surface with a silicon-slurry/aluminide coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal reactor — liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-28952
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

SILICON ALLOYS

Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

SILICON CARBIDES

A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12084-1] c 76 N76-25049
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-16832-1] c 27 N83-18908
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14382-1] c 27 N87-28656
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

SILICON COMPOUNDS

Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10807
Polymerizable disilanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Infusible silazane polymer and process for producing same — protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Silicon-slurry/aluminide coating — protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455

SILICON CONTROLLED RECTIFIERS

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

SILICON DIOXIDE

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Transmitting and reflecting diffuser — using ultraviolet grade fused silica castings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Fibrous refractory composite insulation — shielding reusable spacecraft
[NASA-CASE-ARC-11189-1] c 24 N79-24062
Attachment system for silica tiles — thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Apparatus and method for heating a material in a transparent ampoule — crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

SILICON FILMS

A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

SILICON JUNCTIONS

Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513

SILICON NITRIDES

Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371

SILICON OXIDES

Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

SILICON POLYMERS

Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

SILICON RADIATION DETECTORS

Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765

SILICON TRANSISTORS

Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

SILICONE RESINS

Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575

SILICONES

Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SILICONIZING

Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075

SILOXANES

Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

SILVER

Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SILVER ALLOYS

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

SILVER CHLORIDES

Electrode for biological recording
[NASA-CASE-XMS-02972] c 05 N69-21925
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00983] c 15 N69-39735

SILVER COMPOUNDS

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

SILVER ZINC BATTERIES

Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Additive for zinc electrodes — electric automobiles
[NASA-CASE-LEW-13288-1] c 33 N84-14422

SIMD (COMPUTERS)

Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27266

SIMULATION

Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

SIMULATORS

Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24806
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Laser Doppler velocity simulator — to induce frequency shift
[NASA-CASE-LAR-12178-1] c 36 N80-18321
Weightlessness simulation system and process
[NASA-CASE-ARC-11648-1] c 14 N87-25344

SIMULTANEOUS EQUATIONS

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

SINE SERIES

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

SINE WAVES

Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11369-1] c 33 N77-26387
SINGLE CRYSTALS
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23266
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
SINTERING
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21485
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
SIS (SUPERCONDUCTORS)
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
SIZE (DIMENSIONS)
Apparatus for producing metal powders
[NASA-CASE-XLE-06481-2] c 17 N72-28535
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
SIZE DETERMINATION
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
SIZE SEPARATION
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
SIZING (SHAPING)
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
SIZING SCREENS
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
SKEWNESS
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
SKID LANDINGS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
SKIN (ANATOMY)
Process for conditioning tanned shartskin and articles made therefrom Patent
[NASA-CASE-XMS-09891-1] c 18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
SKIN (STRUCTURAL MEMBER)
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
SKIN FRICTION
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
SKIN TEMPERATURE (BIOLOGY)
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
SKIN TEMPERATURE (NON-BIOLOGICAL)
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
SKIRTS
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
SKY BRIGHTNESS
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
SLEEP
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
SLEEVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29872
SLENDER BODIES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
SLICING
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
SLIDING
Hybrid butterfly valve
[NASA-CASE-SSC-00004] c 37 N90-15443
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N90-17051
SLIDING CONTACT
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
SLIDING FRICTION
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
SLIP CASTING
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
SLITS
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
SLOPES
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
SLOT ANTENNAS
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Turnstile slot antenna
[NASA-CASE-GSC-11429-1] c 32 N74-20864
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
SLOTS
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11955-1] c 37 N81-14319
SLUDGE
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11834
SLURRIES
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
SLURRY PROPELLANTS
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
SMOKE
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17856
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
SODIUM CHLORIDES
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
SODIUM VAPOR
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
SOFT LANDING
Non-reusuable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
SOFT LANDING SPACECRAFT
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
SOIL MECHANICS
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
SOIL MOISTURE
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
SOIL SCIENCE
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N71-32321
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
SOILS
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10329

SOL-GEL PROCESSES
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
SOLAR ACTIVITY
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
SOLAR ARRAYS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Use of unilluminated solar cells as shunt diodes for a solar array
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[NASA-CASE-XGS-01395] c 03 N69-21539
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[NASA-CASE-XLE-01716] c 09 N70-40234
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[NASA-CASE-NPO-13810-1] c 44 N77-32562
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Solar concentrator
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Wind and solar powered turbine
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Solar energy converter using surface plasma waves
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SOLAR GRAVITATION
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Solar heating system
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Combined solar collector and energy storage system
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[NASA-CASE-NPO-15071-1] c 44 N82-16475
Solar energy control system — temperature measurement
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SOLAR OBSERVATORIES
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[NASA-CASE-MSC-10966] c 14 N71-18568

SOLAR PONDS (HEAT STORAGE)
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Selfless solar pond
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SOLAR POSITION
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
Solar tracking system
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Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 06 N84-12154

SOLAR RADIATION
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Wide angle sun sensor — consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
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[NASA-CASE-NPO-15662-1] c 44 N84-28204
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[NASA-CASE-NPO-15419-2] c 44 N85-30474
Long gain length solar pumped box laser
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Variable anodic thermal control coating
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Protective telescoping shield for solar concentrator
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SOLAR RADIO EMISSION
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

SOLAR REFLECTORS
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17810
Apparatus for making curved reflectors Patent
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Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N77-22586
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
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SOLAR SAILS
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[NASA-CASE-NPO-14021-2] c 27 N80-16163
Speed control device for a heavy duty shaft — solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

SOLAR SENSORS
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35386
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Solar sensor having coarse and fine sensing with matched preamplified cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Solar tracking system
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Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Cloud cover sensor
[NASA-CASE-NPO-14836-1] c 47 N83-32232
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-14492

SOLAR SIMULATORS
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
High powered arc electrodes — producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

SOLAR-PUMPED LASERS
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

SOLDERED JOINTS
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214

SOLDERING
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15888
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[NASA-CASE-XNP-03459] c 15 N71-21079
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08968-1] c 17 N71-25803
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13852-2] c 44 N79-24431

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[NASA-CASE-XMF-01599] c 09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

SOLENOID VALVES
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23080
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10807-1] c 15 N72-20442
Remote fire stack igniter — with solenoid-controlled valve
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[NASA-CASE-XNP-01961] c 09 N70-41929
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[NASA-CASE-NPO-10716] c 09 N71-24692

Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
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[NASA-CASE-MSC-18106-1] c 33 N82-11357

SOLID CRYOGEN COOLING
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[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLID ELECTRODES
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
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[NASA-CASE-LEW-13286-1] c 33 N84-14422

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[NASA-CASE-XMS-00259] c 18 N70-36400
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[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
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[NASA-CASE-LEW-11930-4] c 24 N79-17916

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[NASA-CASE-NPO-15269-1] c 44 N82-29710

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Apparatus for igniting solid propellants Patent
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[NASA-CASE-XLE-01986] c 27 N71-15634
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
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[NASA-CASE-XLA-00105] c 28 N70-33331
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Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
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Solid propellant rocket motor and method of making same
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[NASA-CASE-NPO-11975-1] c 28 N74-33209
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[NASA-CASE-XNP-09228] c 09 N69-27500
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[NASA-CASE-NPO-10230] c 09 N71-12520
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[NASA-CASE-NPO-11388] c 03 N72-23048
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[NASA-CASE-MSC-20181-1] c 33 N88-23941
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[NASA-CASE-MSC-14081-1] c 35 N74-27860

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[NASA-CASE-NPO-15767-1] c 23 N84-16255
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[NASA-CASE-MSC-20761-1] c 37 N87-15465

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[NASA-CASE-MFS-25721-1] c 25 N85-21280
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[NASA-CASE-NPO-15772-1] c 76 N85-29800
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[NASA-CASE-NPO-17480-1-CU] c 25 N90-26098
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[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176
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[NASA-CASE-MFS-22926-1] c 24 N77-27187
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[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
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[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176
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[NASA-CASE-LAR-10595-1] c 35 N74-16135
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
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[NASA-CASE-NPO-14134-1] c 71 N79-23753
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[NASA-CASE-LAR-11173-1] c 35 N75-19614
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[NASA-CASE-NPO-14191-1] c 31 N80-32584
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710
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[NASA-CASE-GSC-10503-1] c 14 N72-20381
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[NASA-CASE-XMS-05365] c 14 N71-22993
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[NASA-CASE-NPO-13263-1] c 12 N75-24774
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[NASA-CASE-NPO-13802-1] c 71 N78-10837
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Acoustic bubble removal method
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[NASA-CASE-LAR-12966-1] c 35 N85-30282
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[NASA-CASE-NPO-15559-1] c 71 N85-30765
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[NASA-CASE-LAR-13440-1] c 71 N87-21653
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[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
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[NASA-CASE-XGS-01654] c 31 N71-24750
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[NASA-CASE-GSC-10590-1] c 31 N73-14853
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[NASA-CASE-XMF-00641] c 31 N70-36410
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[NASA-CASE-NPO-13064-1] c 33 N79-11314
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[NASA-CASE-XLA-00901] c 07 N71-10775
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[NASA-CASE-XGS-06679] c 10 N71-21473
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[NASA-CASE-XGS-02607] c 31 N71-23009
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
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[NASA-CASE-MSC-21534-1] c 18 N90-26860
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[NASA-CASE-XMS-01554] c 10 N71-10578
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[NASA-CASE-HQN-10781] c 23 N71-30292
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Diffuser/ejector system for a very high vacuum environment
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Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
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[NASA-CASE-XLA-00676] c 31 N70-34296
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[NASA-CASE-XLA-00256] c 31 N70-38676
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[NASA-CASE-XMF-00437] c 07 N70-40202
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[NASA-CASE-XLA-00210] c 30 N70-40309
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[NASA-CASE-XLA-01220] c 02 N70-41863
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[NASA-CASE-MFS-20410] c 15 N71-19214
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[NASA-CASE-XMS-03454] c 09 N71-20658
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Bi-stem gripping apparatus
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Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
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[NASA-CASE-LAR-13798-1] c 32 N89-25363
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[NASA-CASE-XFR-03107] c 09 N71-19449
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[NASA-CASE-NPO-13263-1] c 12 N75-24774
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[NASA-CASE-XAC-06029-1] c 31 N71-24813
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[NASA-CASE-MSC-12391] c 30 N73-12884
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Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11461] c 21 N73-13644
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[NASA-CASE-GSC-11188-2] c 21 N73-19630
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[NASA-CASE-XGS-00466] c 21 N70-34297
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[NASA-CASE-NPO-16038-1] c 37 N86-19605
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[NASA-CASE-LAR-13393-1] c 54 N87-29118
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[NASA-CASE-MSC-21117-1] c 18 N88-28958
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Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

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[NASA-CASE-MFS-25707-1] c 35 N82-26631
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Space ultra-vacuum facility and method of operation
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[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
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[NASA-CASE-MSC-18069-1] c 18 N84-22605
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[NASA-CASE-ARC-11164-1] c 44 N83-34448
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[NASA-CASE-MSC-20254-1] c 16 N84-22601
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[NASA-CASE-LAR-12862-1] c 27 N84-27886
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[NASA-CASE-ARC-11505-1] c 18 N84-22612
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
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[NASA-CASE-MSC-21330-1] c 16 N88-24660
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[NASA-CASE-XAC-02058] c 02 N71-16087
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
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[NASA-CASE-MSC-12433] c 31 N73-14854
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
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[NASA-CASE-LEW-11179-1] c 27 N76-16229
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
System for sterilizing objects — cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Adjustable high emittance gap filler — reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
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Docking mechanism for spacecraft
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[NASA-CASE-MSC-20985-1] c 18 N86-26396
Smart tunnel: Docking mechanism
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[NASA-CASE-MSC-21096-1] c 18 N89-12621
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[NASA-CASE-MSC-13917-1] c 05 N72-15098
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Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
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[NASA-CASE-ARC-11100-1] c 54 N78-31736
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[NASA-CASE-MSC-18223-1] c 24 N82-29362
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[NASA-CASE-ARC-11543-1] c 54 N86-28620
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Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
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[NASA-CASE-MSC-21366-1] c 54 N89-12206
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[NASA-CASE-MSC-21364-1] c 54 N89-13889
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[NASA-CASE-ARC-11635-1] c 18 N90-16860
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[NASA-CASE-MSC-21366-1] c 54 N90-25498
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Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
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Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
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[NASA-CASE-MFS-28139-1] c 29 N87-18679
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[NASA-CASE-MFS-23675-1] c 89 N79-10969
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[NASA-CASE-NPO-14372-1] c 35 N80-26635
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[NASA-CASE-MFS-25282-1] c 34 N83-19015
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[NASA-CASE-MFS-25942-1] c 74 N86-20124
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[NASA-CASE-MFS-25956-1] c 37 N87-21333
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[NASA-CASE-XGS-01475] c 03 N71-11058

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[NASA-CASE-XLA-00793] c 21 N71-22880
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[NASA-CASE-XER-09521] c 09 N72-12136
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[NASA-CASE-LAR-10163-1] c 09 N72-25247
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Multi-channel rotating optical interface for data transmission
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Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
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[NASA-CASE-MSC-14771-1] c 54 N77-32722

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[NASA-CASE-XGS-05918] c 07 N69-39974
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[NASA-CASE-NPO-10214] c 10 N71-26577
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
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[NASA-CASE-NPO-14362-1] c 32 N80-16261
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[NASA-CASE-KSC-11048-1] c 62 N81-24779
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[NASA-CASE-GSC-12147-1] c 32 N81-27341
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[NASA-CASE-XLA-02050] c 31 N71-22968
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Space simulator Patent
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Spacecraft Patent
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[NASA-CASE-NPO-10556] c 14 N71-27185
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Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Aerospace vehicle
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Spacecraft component heater control system
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Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
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[NASA-CASE-MSC-12433] c 31 N73-14854
Space vehicle
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[NASA-CASE-MFS-25853-1] c 16 N84-27784

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[NASA-CASE-XLA-00936] c 14 N71-14996
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08981] c 17 N71-28747
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
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[NASA-CASE-LEW-14072-3] c 27 N87-23736
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[NASA-CASE-XGS-00359] c 14 N70-34158
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[NASA-CASE-XNP-00465] c 21 N70-35395
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[NASA-CASE-XMS-04142] c 31 N70-41631
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All sky pointing attitude control system
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Propulsion apparatus and method using boil-off gas from a cryogenic liquid
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[NASA-CASE-XFR-00929] c 31 N70-34966
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
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Docking structure for spacecraft Patent
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Space vehicle
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Space vehicle system
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Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
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[NASA-CASE-LAR-14156-1] c 16 N90-16781
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N90-26292

SPACECRAFT DOCKING

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[NASA-CASE-XMS-03613] c 31 N71-16346
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
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[NASA-CASE-MFS-20863] c 31 N73-26876
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[NASA-CASE-MSC-12559-1] c 18 N76-14186
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[NASA-CASE-MFS-20855-1] c 15 N77-10112
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[NASA-CASE-MFS-23088-1] c 37 N77-23483
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[NASA-CASE-NPO-14521-1] c 37 N81-27519
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[NASA-CASE-MFS-25403-1] c 18 N83-29303
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25192
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N89-25263
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
Docking mechanism for spacecraft
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SPACECRAFT ELECTRONIC EQUIPMENT

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[NASA-CASE-XMS-05454-1] c 07 N71-12391
Vacuum deposition apparatus Patent
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[NASA-CASE-GSC-10188-1] c 23 N71-24725
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[NASA-CASE-MSC-21166-1] c 35 N87-25555
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
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[NASA-CASE-XNP-00614] c 14 N70-36907
Air bearing Patent
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Folding boom assembly Patent
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Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
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Spacecraft attitude control method and apparatus
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Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
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[NASA-CASE-LAR-13198-1] c 37 N87-23983

SPACECRAFT LANDING

Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Discrete local attitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

SPACECRAFT LAUNCHING

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24894
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

SPACECRAFT MODELS

Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

SPACECRAFT MODULES

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

SPACECRAFT MOTION

Magnetic suspension and pointing system — on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372

SPACECRAFT POSITION INDICATORS

Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
Spacecraft attitude sensor
[NASA-CASE-GSC-10690-1] c 21 N73-30640

SPACECRAFT POWER SUPPLIES

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Thermoelectric power system — for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
Module failure isolation circuit for paralleled inverters — preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Linear magnetic motor/generator — to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-26939

SPACECRAFT PROPULSION

Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Speed control device for a heavy duty shaft — solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

SPACECRAFT RADIATORS

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Thermal control system — removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Radiative cooler — spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20612-1] c 34 N86-27593
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12043
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N89-14348

SPACECRAFT RECOVERY

Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985

SPACECRAFT REENTRY

Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

SPACECRAFT SHIELDING

Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Thermal barrier pressure seal — shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
High temperature glass thermal control structure and coating — for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335

SPACECRAFT STABILITY

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-26064

SPACECRAFT STRUCTURES

Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40236
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16180
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Structural heat pipe — for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Auger attachment method for insulation — of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Curved cap corrugated sheet
[NASA-CASE-LAR-12684-1] c 18 N84-33450
Elastomer toughened polyimide adhesives — bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

SPACECRAFT TELEVISION
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Optical conversion method — for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N76-17665

SPACECRAFT TEMPERATURE
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
Capillary heat transport and fluid management device
[NASA-CASE-MFS-26217-1] c 34 N89-14392

SPACECRAFT TRACKING
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Orbital and entry tracking accessory for globes — to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379

SPACECREWS
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28651

SPACELAB PAYLOADS
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPALLATION
Method of producing I-123 — by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

SPARK CHAMBERS
Laser measuring system for incremental assemblies — measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

SPARK GAPS
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

SPARK IGNITION
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

SPARK PLUGS
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

SPARKS
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

SPATIAL DISTRIBUTION
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

SPATIAL FILTERING
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

SPATIAL RESOLUTION
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

SPECIMENS
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-26246-1] c 31 N88-24817
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

SPECKLE PATTERNS
Method and apparatus for reducing speckle
[NASA-CASE-LAR-13771-1] c 36 N89-14426

SPECTRAL BANDS
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

SPECTRAL CORRELATION
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

SPECTRAL REFLECTANCE
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

SPECTRAL SENSITIVITY
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

SPECTRAL SIGNATURES
Multispectral imaging and analysis system — using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SPECTROMETERS
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Resonant waveguide stark cell — using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33786
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

SPECTROPHOTOMETERS
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17667

SPECTRORADIOMETERS
Compact spectroradiometer
[NASA-CASE-HQN-10663] c 14 N71-34389

SPECTROSCOPIC ANALYSIS
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-06269] c 23 N71-26206
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150

SPECTROSCOPIC TELESCOPES
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594

SPECTRUM ANALYSIS
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Stark cell optoacoustic detection of constituent gases in samples
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816

SPECULAR REFLECTION
Real time reflectometer — measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465

SPEECH BASEBAND COMPRESSION
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

SPEECH RECOGNITION
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SPEED CONTROL
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Two speed drive system — mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Low speed phaselock speed control system — for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Speed control device for a heavy duty shaft — solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

SPEED INDICATORS
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

SPEED REGULATORS
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28686

SPHERES
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

SPHERICAL SHELLS
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
Method and apparatus for growing crystals
[NASA-CASE-MFS-26137-1] c 76 N88-24544
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

SPHERICAL TANKS
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007

SPHERICAL WAVES
Shock wave convergence apparatus
[NASA-CASE-MFS-20690] c 14 N72-22439

SPHYGMOGRAPHY
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

SPIKE NOZZLES
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

SPIKE POTENTIALS
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
SPILLING
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431
SPIN DYNAMICS
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13626
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
SPIN REDUCTION
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
SPIN STABILIZATION
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
SPINDLES
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
SPINE
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
SPIRAL ANTENNAS
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
SPIRAL WRAPPING
Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
SPIRALS (CONCENTRATORS)
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
SPIROMETERS
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
SPLICING
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
SPLINTS
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
SPOILERS
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
SPORES
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
SPOT WELDS
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
SPRAY CHARACTERISTICS
Constant-output atomizer --- inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
SPRAY NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
SPRAYED COATINGS
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-13359-1] c 27 N83-31855
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
SPRAYERS
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07656-1] c 05 N71-26293
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
SPRAYING
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
SPREAD SPECTRUM TRANSMISSION
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
SPREADING
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
SPRINGS (ELASTIC)
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00640] c 15 N70-38225
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
SPUTTERING
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
SQUARE WAVES
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
SQUARES (MATHEMATICS)
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
SQUEEZE FILMS
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
SQUIBS
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
SQUID (DETECTORS)
Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602
STABILITY
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Reflection oscillators employing series resonant crystals
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27970
STABILITY AUGMENTATION
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
STABILITY TESTS
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
STABILIZATION
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411

System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Radiation hardening of MOS devices by boron — for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

STABILIZED PLATFORMS
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

STABILIZERS
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396

STABILIZERS (AGENTS)
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

STABILIZERS (FLUID DYNAMICS)
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

STABLE OSCILLATIONS
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N89-39986

STACKS
Remote fire stack igniter — with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378

STAGE SEPARATION
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Single action separation mechanism Patent
[NASA-CASE-XLA-00186] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

STAGNATION PRESSURE
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Stagnation pressure probe — for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

STAGNATION TEMPERATURE
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

STAINING
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

STAINLESS STEELS
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20787-1] c 38 N74-15130
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Moving body velocity arresting line — stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052

STAMPING
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector — ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

STANDARDS
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Ultrasonic angle beam standard reflector — ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

STANDING WAVES
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

STAR TRACKERS
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner — with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

STARK EFFECT
Resonant waveguide stark cell — using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring — a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

STARTERS
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Motor run-up system — power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11380

STARTING
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

STATIC DEFORMATION
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

STATIC DISCHARGERS
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

STATIC FRICTION
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

STATIC INVERTERS
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

STATIC LOADS
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

STATIC PRESSURE
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12641

STATIONKEEPING
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

STATISTICAL ANALYSIS
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016

STATISTICAL CORRELATION
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407

STATOR BLADES
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

STATORS
Nickel base alloy — for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Natural turbulence electrical power generator — using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-28841

STEADY STATE
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861

STEAM
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13809-1] c 25 N90-11824

STEAM TURBINES
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104

STEELS
Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

STEERABLE ANTENNAS
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860

Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

STEERING
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861

STELLAR LUMINOSITY
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STELLAR SPECTRA
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STENCIL PROCESSES
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073

STEPPING MOTORS
Scanner — photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13455

STEREOPHOTOGRAPHY
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

STEREOSCOPIC VISION
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27726
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-26676

STEREOSCOPY
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

STERILIZATION
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20481
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
System for sterilizing objects — cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

STERILIZATION EFFECTS
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200

STIFFENING
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

STIFFNESS
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

STILBENE
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

STIMULATED EMISSION
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

STIRLING CYCLE
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

STIRLING ENGINES
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

STIRRING
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

STOICHIOMETRY
Sulfone-ester polymers containing pendent ethynl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
The 5-(4-Ethynylophenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26885
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

STORAGE
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

STORAGE BATTERIES
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Formulated plastic separators for soluble electrode cells — rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Toroidal cell and battery — storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

STORAGE STABILITY
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Method for retarding dye fading during archival storage of developed color photographic film — inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

STORAGE TANKS
Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254

STOWAGE (ONBOARD EQUIPMENT)
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

STRAIN DISTRIBUTION
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

STRAIN GAGE ACCELEROMETERS
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

STRAIN GAGE BALANCES
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

STRAIN GAGES
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22000
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Subminiature insertable force transducer — including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
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[NASA-CASE-XNP-00733] c 06 N70-34948
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[NASA-CASE-ARC-10470-3] c 05 N76-29217
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[NASA-CASE-LEW-11058-1] c 20 N74-13502
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SUPERSONIC FLOW
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Stagnation pressure probe — for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

SUPERSONIC INLETS
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Shock position sensor for supersonic inlets — measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32188

SUPERSONIC NOZZLES
Peneshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

SUPERSONIC SPEED
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

SUPERSONIC TRANSPORTS
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12060
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Supersonic transport — using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32066

SUPERSONIC WIND TUNNELS
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21063
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

SUPPORT INTERFERENCE
Spherical bearing — to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404

SUPPORT SYSTEMS
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

SUPPORTS
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-26740
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-06907] c 23 N71-29123
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Method of making porous conductive supports for electrodes — by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Thrust-isolating mounting — characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
Almond test body — for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-28841
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N90-27261

SUPPRESSORS
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

SURFACE ACOUSTIC WAVE DEVICES
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

SURFACE CRACKS
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SURFACE DEFECTS
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879

SURFACE DIFFUSION
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

SURFACE FINISHING
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Surface finishing — for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
Modification of the electrical and optical properties of polymers — ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887

SURFACE GEOMETRY
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

SURFACE IONIZATION
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

SURFACE LAYERS
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

SURFACE PROPERTIES
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Apparatus for microbiological sampling — including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Penetrometer — for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32696
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150

SURFACE REACTIONS
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-18542-1-CU] c 36 N87-23960
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N89-26651
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770

SURFACE ROUGHNESS
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Surface roughness measuring system — synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Texturing polymer surfaces by transfer casting — cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Ion sputter textured graphite — anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

SURFACE ROUGHNESS EFFECTS
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

SURFACE TEMPERATURE
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

SURFACE VEHICLES
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
Short range laser obstacle detector — for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SURFACE WAVES
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-26980
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
SURFACES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
SURFACTANTS
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
SURGERY
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
SURGES
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
SURGICAL INSTRUMENTS
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19685
SURVIVAL EQUIPMENT
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
SUSPENDING (HANGING)
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
A torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N89-28547
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N90-10310
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
SUSPENSION SYSTEMS (VEHICLES)
Suspension system for a wheel rolling on a flat track — bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
SWEAT
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
SWEAT COOLING
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
SWEEP CIRCUITS
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-26926
SWEEP EFFECT
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Acoustically swept rotor — helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
SWEEP FREQUENCY
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
SWELLING
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
SWEPT FORWARD WINGS
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
SWEPT WINGS
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
SWIRLING
Slush alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
SWITCHES
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Triac failure detector
[NASA-CASE-MFS-25407-1] c 33 N83-34190
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25652-1] c 33 N84-33661
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008
Solid state electrical switch employing materials with reversible phase transitions
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
SWITCHING
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
SWITCHING CIRCUITS
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
Fast response low power drain logic circuits
[NASA-CASE-GSC-10678-1] c 10 N72-22236
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14618
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
Module failure isolation circuit for paralleled inverters — preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Microwave switching power divider — antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Active lamp pulse driver circuit — optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16456
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22363

SWITCHING THEORY

Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SWIVELS

Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

SYNAPSES

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

SYNCHRONISM

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-06875] c 10 N71-23099
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

SYNCHRONIZED OSCILLATORS

Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

SYNCHRONIZERS

Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Memory-based frame synchronizer — for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

SYNCHRONOUS MOTORS

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Motor run-up system — power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

SYNCHRONOUS SATELLITES

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

SYNTHESIS

Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27960

SYNTHESIS (CHEMISTRY)

Prepolymer dianhydrides
[NASA-CASE-NPO-13699-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Synthesis of dawsonites — for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12658-1] c 27 N83-34041
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12960-1] c 27 N84-22749
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21562
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
The 5-(4-Ethynylophenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
Substituted 1,1,1-Trialyl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Novel ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N88-29984
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
Low dielectric fluorinated poly(phenylene ethere keytone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496
Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

SYNTHESIZERS

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

SYNTHETIC APERTURE RADAR

Surface roughness measuring system — synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14996-1] c 32 N83-16975
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34851
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N86-26541

SYNTHETIC FIBERS
Fluid containers and reseelable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-06881] c 17 N71-26747
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13946-1] c 35 N78-25391
Process for spinning flame retardant elastomeric compositions — fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

SYNTHETIC FUELS
Molten salt pyrolysis of latex — synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475

SYNTHETIC RESINS
Coating process
[NASA-CASE-XNP-06506] c 18 N69-39895
Phosphorus-containing bismide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545

SYNTHETIC RUBBERS
Process for the preparation of polycarboranylphosphazenes — thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

SYRINGES
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Automated syringe sampler — remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SYSTEM EFFECTIVENESS
System for the measurement of ultra-low stray light levels — determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11885

SYSTEM FAILURES
Tape recorder Patent
[NASA-CASE-XGS-06259] c 14 N71-23696
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

SYSTEMS ANALYSIS
Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166

SYSTEMS ENGINEERING
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10994-1] c 10 N71-19417
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20884
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Fast opening diaphragm Patent
[NASA-CASE-XLA-03960] c 15 N71-21060
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Refrigeration apparatus Patent
[NASA-CASE-XNP-06877] c 15 N71-23025
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-06569-2] c 03 N71-24681
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26737
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26786
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
System for sterilizing objects — cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

SYSTOLIC ARRAYS
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

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TABS (CONTROL SURFACES)
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

TACHOMETERS
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22696
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15708-1] c 35 N84-28017

TAIL ASSEMBLIES
Surface conforming thermal/pressure seal — tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

TAKEOFF
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

TANGENTS
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26200

TANK GEOMETRY
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
TANKERS
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
TANKS (COMBAT VEHICLES)
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034
TANKS (CONTAINERS)
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-1] c 35 N89-12843
TANTALUM
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
TANTALUM ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
TANTALUM CARBIDES
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
TANTALUM OXIDES
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
TAPE RECORDERS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23898
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
TAPERED COLUMNS
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
TAPERING
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
TAPES
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
TARGET ACQUISITION
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
TARGET RECOGNITION
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N89-39980
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
TARGET SIMULATORS
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
TARGETS
Method and apparatus for producing concentric hollow spheres — inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres — target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
TECHNOLOGY UTILIZATION
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
TEETH
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
TEFLON (TRADEMARK)
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
TELECOMMUNICATION
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-26084
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Pseudo-noise test set for communication system evaluation — test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Modulator for tone and binary signals — phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
TELEMETRY
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-26012
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N88-24662
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17260-1-CU] c 17 N90-21061
TELEOPERATORS
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864
TELEPHONES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
TELEPHONY
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
TELESCOPES
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Boroscope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33136
TELETYPEWRITER SYSTEMS
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
TELEVISION CAMERAS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41607
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
Optical conversion method — for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
TELEVISION EQUIPMENT
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10009] c 09 N71-28618
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813

TELEVISION RECEIVERS

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Spacecraft docking and alignment system — using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

TELEVISION SYSTEMS
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

TELEVISION TRANSMISSION
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

TELLURIUM
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

TEMPERATURE
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-36604
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03918] c 09 N71-26810
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10487-1] c 09 N73-14214
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

TEMPERATURE CONTROL
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15820
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14802
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal compensator for closed-cycle helium refrigerator — assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Automatic thermal switch — spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-26356
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Heating and cooling system — for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Thermal control system — removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

TEMPERATURE DISTRIBUTION
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

TEMPERATURE EFFECTS
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
High performance mixed bismide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
Pressure ng for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216

TEMPERATURE GRADIENTS
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15586
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10487-1] c 09 N73-14214
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29660
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

TEMPERATURE MEASUREMENT
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15902
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Method of fabricating an article with cavities — with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
Method for determining thermo-physical properties of specimens — photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
Multi-channel temperature measurement amplification system — solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Solar energy control system — temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Method of and apparatus for measuring temperature and pressure — atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15851-1] c 43 N85-21723
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770

TEMPERATURE MEASURING INSTRUMENTS
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15820
Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058

Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18630
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROBES

Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROFILES

Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26831

TEMPERATURE SENSORS

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-26781
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

TEMPLATES

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Method of inserting predesigned diabond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

TENSILE PROPERTIES

Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

TENSILE STRENGTH

Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Tensile strength testing device Patent
[NASA-CASE-XNP-05834] c 15 N71-24834
Device for use in loading tension members — characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 38 N86-20841
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-29847

TENSILE STRESS

Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Device for measuring tensile forces
[NASA-CASE-MFS-21726-1] c 35 N74-27885
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

TENSILE TESTS

Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05834] c 15 N71-24834
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Anti-buckling fatigue test assembly — for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549

TENSION

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

TERMINAL GUIDANCE

Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Terminal guidance system — for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Terminal guidance sensor system — space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

TERNARY SYSTEMS

Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

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Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

TERRAIN ANALYSIS

Surface roughness measuring system — synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26364

TEST CHAMBERS

Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27066
Autoignition test cell Patent
[NASA-CASE-KSC-10196] c 11 N71-28629
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

TEST EQUIPMENT

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Anti-buckling fatigue test assembly — for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Battery testing device — for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

TEST FACILITIES

Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

TEST STANDS

Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

TEST VEHICLES

Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

TETHERED SATELLITES

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

TETHERING

Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

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Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

TETRAETHYL ORTHOSILICATE
Densification of porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
TETRAPHENYLS
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
TEXTILES
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
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Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
TEXTURES
Modification of the electrical and optical properties of polymers — ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Texturing polymer surfaces by transfer casting — cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Ion sputter textured graphite — anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
THERAPY
Hyperthermia heating apparatus — cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
THERMAL ABSORPTION
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Solar pond
[NASA-CASE-NPO-13561-2] c 44 N78-31525
THERMAL ANALYSIS
Thermal remote anemometer system
[NASA-CASE-LAR-13506-1] c 35 N88-23962
THERMAL COMFORT
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
THERMAL CONDUCTIVITY
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Automatic thermal switch — spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206
THERMAL CONDUCTORS
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
THERMAL CONTROL COATINGS
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
High temperature resistant cermet and ceramic compositions — for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Lightweight electrically-powered flexible thermal laminate — made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
High temperature glass thermal control structure and coating — for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
THERMAL DEGRADATION
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03966] c 14 N71-27186
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
THERMAL DIFFUSIVITY
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
THERMAL EMISSION
Electromagnetic radiation energy arrangement — coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N89-28651
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Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
Thermal energy storage system — operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
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[NASA-CASE-LEW-13142-2] c 07 N86-20389
THERMAL EXPANSION
Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-06907] c 23 N71-29123
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29265
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
THERMAL FATIGUE
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
THERMAL INSULATION
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22681
Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Cryogenic thermal insulation: Patent
[NASA-CASE-XMF-05046] c 33 N71-28692
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
High current electrical lead — for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Structural heat pipe — for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Auger attachment method for insulation — of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
Thermal insulation attaching means — adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Fibrous refractory composite insulation — shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
Process for the preparation of polycarboranylphosphazenes — thermal insulation
[NASA-CASE-ARC-11178-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers — thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N82-26387
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20641
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
THERMAL MAPPING
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

THERMAL PLASMAS
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
THERMAL PROTECTION
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Flexible fire retardant polyisocyanate modified neoprene foam — for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Corrosion resistant thermal barrier coating — protecting gas turbines and other engine parts
[NASA-CASE-LEW-13068-1] c 26 N81-25188
Attachment system for silica tiles — thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Silicon-slurry/aluminide coating — protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-13359-1] c 27 N83-31855
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Shell tile thermal protection system
[NASA-CASE-LAR-12662-1] c 27 N84-27886
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008
THERMAL RADIATION
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28652
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
THERMAL REACTORS
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
THERMAL RESISTANCE
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12612
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Ambient cure polyimide foams — thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
The 1,2,4-oxadiazole elastomers — heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Surface conforming thermal/pressure seal — tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16406
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Thermal barrier coating system
[NASA-CASE-LEW 13324-2] c 24 N85-21266
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Fire and heat resistant laminating resins based on malemeido and citraconimido substituted 1 -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
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THRESHOLD LOGIC
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514

THROATS
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

THRUST AUGMENTATION
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23061
Reversed cowl flap inlet thrust augmentor — with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-16039
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

THRUST BEARINGS
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588

THRUST CHAMBER PRESSURE
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

THRUST CHAMBERS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 23 N70-36806
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 29 N71-15659
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
Heat exchanger — rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making — bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289

THRUST CONTROL
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-36181
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18786
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Fluid thrust control system — for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

THRUST LOADS
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

THRUST MEASUREMENT
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
Precision thrust gage Patent
[NASA-CASE-XGS-02310] c 14 N71-22965
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

THRUST REVERSAL
Thrust reverser for a long duct fan engine — for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

THRUST VECTOR CONTROL
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00206] c 28 N70-34294
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20631] c 28 N71-29153
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773

System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

THRUST-WEIGHT RATIO
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

THULIUM
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

THYRISTORS
Electrical power generating system — for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

TILES
Strain arrestor plate for fused silica tile — bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Attachment system for silica tiles — thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Method for repair of thin glass coatings — on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Densification of porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates — space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N86-18628

TILT WING AIRCRAFT
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

TIME
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

TIME CONSTANT
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

TIME DEPENDENCE
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

TIME DISCRIMINATION
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

TIME DIVISION MULTIPLEXING
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-39998
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08632] c 08 N71-12506
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

TIME FUNCTIONS
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659

TIME LAG
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08632] c 08 N71-12506
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Automatic transponder — measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

TIME MEASUREMENT
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-13256-1] c 32 N87-21207

TIME MEASURING INSTRUMENTS
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

TIME OF FLIGHT SPECTROMETERS
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041

TIME SERIES ANALYSIS
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12426-1] c 10 N73-25240
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
Method and apparatus for determining time, direction and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132

TIME SHARING
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507

TIME SIGNALS
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39685
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08675] c 10 N71-23099
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Precise RF timing signal distribution to remote stations — fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

TIMING DEVICES
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08675] c 10 N71-23099
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
Timing control system
[NASA-CASE-NPO-16662-1-CU] c 33 N88-24863

TIN OXIDES
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20160

TIPS
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

TIRES
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

TISSUES (BIOLOGY)
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10604
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13026-1] c 52 N85-30618
Horizontally rotated cell culture system
[NASA-CASE-MSC-21294-1] c 51 N89-13131
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852

TITANATES
Syntheses of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

TITANIUM
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14035-1] c 44 N80-24741
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

TITANIUM ALLOYS
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944

TITANIUM NITRIDES
Improved refractory coatings — sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

TITANIUM OXIDES
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

TOLERANCES (MECHANICS)
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

TOLUENE
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

TOMOGRAPHY
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

TOOLS
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool — manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25368
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-26085
Connection system — insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21849

Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415
Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17138

TOOTH DISEASES
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

TOPOGRAPHY
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

TORCHES
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15807
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23796
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N89-23738
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168

TOROIDAL SHELLS
Toroidal cell and battery — storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

TOROIDS
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

TORQUE
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Magnetic field control — electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-29084
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Dual towline spin-recovery device
[NASA-CASE-LAR-13078-1] c 08 N85-35200
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

TORQUE MOTORS
Low speed phaselock speed control system — for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

TORQUEMETERS
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

TORSION
A torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N89-26547

TORSO
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-29618

TOUCH
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

TOUGHNESS
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
High performance mixed bismide resins and composites based thereon
[NASA-CASE-ARC-11536-1SB] c 24 N86-21590
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

TOWERS
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343

TOXICITY
Glass compositions with a high modulus of elasticity — nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451

TOXICITY AND SAFETY HAZARD
Apparatus for remote handling of materials — mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

TOXICOLOGY
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

TRACE CONTAMINANTS
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

TRACE ELEMENTS
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28663
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10780-1] c 25 N76-22323
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12048-1] c 15 N79-15210
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-26795

TRACKED VEHICLES
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRACKING (POSITION)
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
System and method for tracking a signal source — employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137

TRACKING FILTERS
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14436-1] c 33 N81-33405

TRACKING RADAR
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27490
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TRACKING STATIONS
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

TRACTION
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

TRAFFIC CONTROL
Traffic survey system — using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19868

TRAILERS
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRAILING EDGES
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094

TRAILING-EDGE FLAPS
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

TRAINING DEVICES
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

TRAINING SIMULATORS
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
Kinesthetic control simulator — for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

TRAJECTORY ANALYSIS
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

TRAJECTORY CONTROL
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873

TRANSDUCERS
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
LC-oscillator with automatic stabilized amplitude via bias current control — power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27586
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

Subminiature insertable force transducer — including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19336
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29695
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer — suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21596
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29661
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
Method and apparatus for applying a mechanical force to surface
[NASA-CASE-LAR-14008-1] c 37 N90-27115

TRANSFER FUNCTIONS
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

TRANSFORMERS
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radial heat flux transformer
[NASA-CASE-NPO-10829] c 33 N72-17946
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Banded transformer cores
[NASA-CASE-NPO-11868-1] c 33 N74-17928
Solid-state current transformer
[NASA-CASE-MFS-22580-1] c 33 N77-14335
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09196] c 33 N78-17295
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14068-1] c 33 N79-24257
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16897-1] c 33 N79-28415
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14817-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

TRANSIENT HEATING
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

TRANSIENT LOADS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

TRANSISTOR AMPLIFIERS
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12053-1] c 09 N71-13531

TRANSISTOR CIRCUITS
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Switching circuit employing regenerathvely connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

TRANSISTORS
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
Fast response low power drain logic circuits
[NASA-CASE-GSC-10678-1] c 10 N72-22236
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Four phase logic systems — including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

TRANSITION FLOW
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

TRANSITION TEMPERATURE
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

TRANSLATIONAL MOTION
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116

TRANSLATORS
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

TRANSLUCENCE
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMISSION CIRCUITS
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

TRANSMISSION EFFICIENCY
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N89-28794

TRANSMISSION LINES
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13136-1] c 33 N74-17927
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

TRANSMISSION LOSS
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304

TRANSMISSIONS (MACHINE ELEMENTS)
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973

TRANSMISSIVITY
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

TRANSMITTANCE
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMITTER RECEIVERS
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TRANSMITTERS
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10640] c 07 N71-24840
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11546] c 07 N73-26118
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Apparatus for endoscopic examination — analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

TRANSONIC SPEED
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

TRANSONIC WIND TUNNELS
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25556

TRANSPARENCE
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11969-1] c 74 N77-28932
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-16550
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13478-1-CU] c 76 N87-29360
Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835

TRANSPIRATION
Rocket chamber and method of making
[NASA-CASE-LEW-11116-2] c 20 N76-14191

TRANSPONDERS
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21116
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Automatic transponder — measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

TRANSPORT VEHICLES
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N90-26342

TRANSPORTATION
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Shuttle car loading system
[NASA-CASE-NPO-15948-1] c 85 N85-34722

TRANSVERSE ACCELERATION
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

TRAPPED PARTICLES
Method and apparatus for determining time, direction and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132

TRAPS
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

TRAVELING WAVE AMPLIFIERS
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

TRAVELING WAVE MASERS
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13901-1] c 36 N78-18410

TRAVELING WAVE TUBES
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
Multistage depressed collector for dual mode operation — for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724

TRAVELING WAVES
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-26521

TREADMILLS
Tread drum for animals — having an electrical shock station
[NASA-CASE ARC-10017-1] c 51 N78-27733

TREADS
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TRIGGER CIRCUITS
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

TRIGONOMETRY
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21686

TRIMERS
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

TRIODES
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39698
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

TRITIUM
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

TROPOPAUSE
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

TRUCKS
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRUSSES
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Lightweight structural columns — space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25769
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N88-30130
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N90-26859
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N90-27111

TUBE GRIDS
Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

TUMBLING MOTION
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

TUNGSTEN
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Nuclear thermionic converter — tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

TUNGSTEN ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

TUNING
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-26796

TUNNEL DIODES
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
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Trap for preventing diffusion pump backstreaming
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[NASA-CASE-XLE-00168] c 11 N70-33278
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
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[NASA-CASE-XMF-07486] c 11 N71-19773
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[NASA-CASE-XLE-00787] c 14 N71-21090
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28694
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[NASA-CASE-LAR-10031] c 15 N72-22484
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20820] c 11 N72-27262
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[NASA-CASE-LAR-10061-1] c 15 N72-31483
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
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[NASA-CASE-MFS-15670-1] c 33 N82-33634
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VACUUM DEPOSITION
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N80-33482
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20386
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[NASA-CASE-NPO-10331] c 09 N71-26701
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[NASA-CASE-NPO-14229-1] c 33 N80-18285

VACUUM FURNACES
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VACUUM GAGES
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-19481
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05067] c 14 N73-30391
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092

VACUUM MELTING
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215

VACUUM PUMPS
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Optical multiple sample vacuum integrating sphere
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[NASA-CASE-XGS-00587] c 15 N70-35087
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[NASA-CASE-XGS-02441] c 15 N70-41629
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-19482
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[NASA-CASE-XER-09519] c 14 N71-19483
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[NASA-CASE-LAR-11237-1] c 35 N75-19612
Ampoule sealing apparatus and process — for housing a semiconductor growth charge under vacuum
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[NASA-CASE-ARC-10448-1] c 31 N79-31366
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14209

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[NASA-CASE-NPO-10179] c 14 N71-19605

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[NASA-CASE-XHQ-01208] c 15 N70-35409
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[NASA-CASE-XLE-00397] c 15 N70-39482
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[NASA-CASE-XNP-00214] c 15 N70-39909
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Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19495
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
Flow control valve — for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
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[NASA-CASE-MFS-20922-1] c 18 N74-22136
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
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Moisture content and gas sampling device
[NASA-CASE-MSC-18868-1] c 35 N85-29213
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29264
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N86-34403
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N90-17051
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-28047-1] c 29 N90-21209

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Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Method of protecting a surface with a silicon-slurry/aluminide coating — coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-29441

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A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N80-33482
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29158
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25250
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-33487
Deposition of alloy films — on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
System for depositing thin films
[NASA-CASE-MFS-26775-1] c 31 N75-12181
Vapor deposition apparatus — semiconductors and gallium arsenides
[NASA-CASE-HQN-10482] c 25 N75-29192
Chemical vapor deposition reactor — providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Corrosion resistant coating
[NASA-CASE-NPO-15829-1] c 26 N86-29005
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11882-1] c 27 N87-23737
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17389-1-CU] c 76 N89-14130

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Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01192] c 27 N71-15835
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23007
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10195] c 10 N71-26339
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

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[NASA-CASE-XLE-00298] c 15 N70-34247

Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
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Sorption vacuum trap Patent
[NASA-CASE-XER-09619] c 14 N71-18483
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Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-18104
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
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Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10933] c 03 N72-28025
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-25658
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[NASA-CASE-NPO-15809-2] c 25 N88-25648
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Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-26429
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Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
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[NASA-CASE-XMF-04958-1] c 10 N71-26414
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
VARIABILITY
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22581
VARIABLE CYCLE ENGINES
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18087
VARIABLE GEOMETRY STRUCTURES
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22249
Aircraft engine nozzle
[NASA-CASE-ARC-10677-1] c 07 N80-32392
VARIABLE PITCH PROPELLERS
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10469
VARIABLE SWEEP WINGS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33298
Variable-span aircraft Patent
[NASA-CASE-XLA-00188] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-09658] c 02 N71-11041
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10479-1] c 02 N73-28005
VARIABLE THRUST
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36902
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40987
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17068
VARIATIONS
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04327] c 15 N71-21744
VECTOR ANALYSIS
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
VECTOR CURRENTS
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-29582
VECTORCARDIOGRAPHY
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10858] c 05 N71-11189
VEGETATION GROWTH
Rotary plant growth accelerating apparatus — weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11978-1] c 43 N78-10529
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
VEHICLE WHEELS
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13629] c 15 N71-27091
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Two speed drive system — mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Filth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Suspension system for a wheel rolling on a flat track — bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
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Magnetic suspension and pointing system
[NASA-CASE-LAR-11589-2] c 37 N78-27424
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Suspension system for a wheel rolling on a flat track — bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17094
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Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
VELOCITY COUPLING
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12298-1] c 33 N82-26568
VELOCITY MEASUREMENT
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04301] c 14 N71-22990
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Doppler shift system — system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
VELOCITY MODULATION
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-05532] c 14 N71-17627
VENTILATION
Protective garment ventilation system
[NASA-CASE-XMS-04926] c 54 N78-17679
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33298
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17798-1-CU] c 35 N90-17104
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Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
VENTING
Venting vapor apparatus Patent
[NASA-CASE-XLE-00298] c 15 N70-34247
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
VENTURI TUBES
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
VENUS (PLANET)
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-36675
VERTICAL FLIGHT
Aircraft instrument Patent
[NASA-CASE-XLA-00467] c 14 N70-40157
VERTICAL LANDING
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
VERTICAL ORIENTATION
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
VERTICAL TAKEOFF AIRCRAFT
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-06972] c 02 N71-20570
VERY HIGH FREQUENCIES
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
VERY LARGE SCALE INTEGRATION
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-26713
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17718-1-CU] c 62 N90-10606
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17[illegible]-1-CU] c 17 N90-21061
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17903-1-CU] c 62 N90-27385
VERY LONG BASE INTERFEROMETRY
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 48 N80-14603
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Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
VIBRATION
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24894
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N89-28829
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
VIBRATION DAMPING
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17839
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11068-1] c 33 N80-29583

Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30033
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409

VIBRATION EFFECTS
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10788] c 09 N71-18830
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Spherical bearing — to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

VIBRATION ISOLATORS
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40158
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 20 N71-15673
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Thrust-isolating mounting — characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Thermal insulation attaching means — adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12469-1] c 08 N82-32373
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30033
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-30797

VIBRATION MEASUREMENT
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05662] c 35 N75-27329
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

VIBRATION METERS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10618
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

VIBRATION MODE
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

VIBRATION SIMULATORS
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

VIBRATION TESTS
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

VIBRATIONAL SPECTRA
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006

VIDEO COMMUNICATION
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Video communication system and apparatus Patent
[NASA-CASE-XNP-06811] c 07 N71-26102
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24326

VIDEO DATA
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224

VIDEO EQUIPMENT
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Video communication system and apparatus Patent
[NASA-CASE-XNP-06811] c 07 N71-26102
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Electronic video editor
[NASA-CASE-KSC-10009] c 10 N73-13235
Scan converting video tape recorder
[NASA-CASE-NPO-10198-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10198-2] c 35 N76-16391
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26006-1-SB] c 54 N88-24183
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

VIDEO SIGNALS
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Large TV display system
[NASA-CASE-NPO-16902-1CU] c 33 N87-15413
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

VIDEO TAPE RECORDERS
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Scan converting video tape recorder
[NASA-CASE-NPO-10198-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10198-2] c 35 N76-16391

VIDEO TAPES
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

VIDICONS
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06029] c 09 N71-23189
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27008

VIEWING
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

VINYL COPOLYMERS
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimids
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20660
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

VINYL POLYMERS
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-19698
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32258
Compound oxidized styrylphosphine — flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24436

VINYLIDENE
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

VIRUSES
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

VISCOELASTICITY
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409

VISCOMETERS
Parallel plate viscometer Patent
[NASA-CASE-XNP-09482] c 14 N71-17584
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

VISCOSITY
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N88-19456
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

VISCOUS DAMPING
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22380

VISIBILITY
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26873

VISIBLE SPECTRUM
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

VISORS
Anti-fog composition — for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925

VISUAL ACUITY
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

VISUAL CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISUAL FIELDS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

VISUAL OBSERVATION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

VISUAL PERCEPTION
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074

Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
VISUAL STIMULI
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
VITERBI DECODERS
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
VOICE COMMUNICATION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Satellite communication system and method Patent
[NASA-CASE-GSC-10119-1] c 07 N71-24821
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10184] c 07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27812
Filtering device — removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
VOICE DATA PROCESSING
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11295-1] c 32 N86-27513
VOIDS
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
VOLATILITY
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
VOLT-AMPERE CHARACTERISTICS
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10429
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18183
VOLTAGE AMPLIFIERS
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Bootstrap unloader Patent
[NASA-CASE-XNP-09788] c 09 N71-12516
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 06 N72-21200
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18256
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N89-23942
VOLTAGE CONTROLLED OSCILLATORS
Pulsed phase locked loop strain monitor — voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Automatic oscillator frequency control system
[NASA-CASE-GSC-12604-1] c 33 N86-20668
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
VOLTAGE CONVERTERS (DC TO DC)
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10429
Inrush current limiter
[NASA-CASE-GSC-11788-1] c 33 N77-14333
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30368
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N79-32341
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14606-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14318-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33683
VOLTAGE GENERATORS
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Telemetor adaptable for implanting in an animal Patent
[NASA-CASE-XAC-06706] c 05 N71-12342
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
VOLTAGE REGULATORS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39868
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39966
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39967
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10736-1] c 10 N71-26085
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26826
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33806
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Low distortion automatic phase control circuit — voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22960
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N79-17295
Voltage regulator for battery power source — using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 20 N79-23345
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22985
High voltage isolation transformer
[NASA-CASE-GSC-13617-1] c 33 N85-26146
VOLTMETERS
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
VOLUME
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 38 N88-23983
VOLUMETRIC ANALYSIS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-19307
VOMITING
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
VORTEX BREAKDOWN
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
VORTEX GENERATORS
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15809
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
VORTICES
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14109
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
VORTICITY
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
VULCANIZING
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10488-1] c 31 N74-13124
VULNERABILITY
Pressure rig for repetitive casting
[NASA-CASE-LAR-14060-1] c 31 N90-21216

W

WAFERS
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10139] c 26 N71-14354
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-16539-1] c 37 N82-11469
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-29790
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31784
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-25870-1] c 33 N84-23984
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15798-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15829-1] c 76 N84-35113
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Cross-contact chain
[NASA-CASE-NPO-16794-1] c 33 N87-10231
Floating emitter solar cell
[NASA-CASE-NPO-16487-1-CU] c 33 N87-23870
Optical shutter switching matrix
[NASA-CASE-KSC-11360-1] c 74 N90-22393
WAKES
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-29139-1] c 29 N87-19870
WALKING
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N91-20112
WALKING MACHINES
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
WALL TEMPERATURE
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Structural heat pipe — for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12332
Thermal control canister
[NASA-CASE-GSC-13293-1] c 34 N79-31529

WALLS

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

WALLS

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-39411
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12906-1] c 25 N85-21279
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21852
Sound attenuation apparatus
[NASA-CASE-LAR-13966-1] c 71 N90-15710

WARNING SYSTEMS

Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-13125] c 09 N71-24860
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-00668] c 14 N71-27196
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10228-1] c 14 N73-18480
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30208
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30841
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 36 N74-18090
Hearing aid malfunction detection system
[NASA-CASE-MSC-14818-1] c 33 N78-10375
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23089
Scanning seismic intrusion detection method and apparatus — monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25580

WASHING

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12666-1] c 27 N83-34059

WASTE DISPOSAL

Relief container
[NASA-CASE-XMS-06781] c 05 N69-23192
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19811
Autoclavable biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Absorbent product and articles made therefrom
[NASA-CASE-MSC-16223-2] c 54 N84-11758
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25498

WASTE ENERGY UTILIZATION

Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-28776
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36629
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N88-20389

WASTE HEAT

Thermal control system — removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14481

WASTE TREATMENT

Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21829-1] c 54 N89-29027

WASTE UTILIZATION

Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

WASTE WATER

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-29967

WATER

High power-high voltage waterload Patent
[NASA-CASE-XNP-05391] c 09 N71-20842
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17394
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N78-18446
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22907
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Solar phytolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

WATER FLOW

Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17086

WATER INJECTION

Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

WATER LANDING

Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00196] c 02 N70-38009
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

WATER MANAGEMENT

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24719
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N79-28701

WATER POLLUTION

Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23081
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-29967

WATER QUALITY

Fluid sample collection and distribution system — qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Rapid, quantitative determination of bacteria in water — adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N80-[illegible]
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-29849

WATER RECLAMATION

Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-05213] c 08 N71-11297
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Water separator
[NASA-CASE-XMS-01266-1] c 37 N79-21345

WATER RESOURCES

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-19496

WATER TEMPERATURE

Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15599

WATER TREATMENT

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24719
Method of preparing water purification membranes — polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10645-1] c 35 N75-13067
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14833-1] c 54 N78-14784
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Reverse osmosis membrane of high urea rejection properties — water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-29967
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21829-1] c 54 N89-29027

WATER VAPOR

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 26 N81-24260
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12809-2] c 36 N83-29681

WATER WAVES

Surface roughness measuring system — synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13662-1] c 35 N79-10391
Oceanic wave measurement system
[NASA-CASE-MFS-23962-1] c 48 N80-19667

WATERPROOFING

Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10599-1] c 37 N74-21063
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16818

WATERWAVE ENERGY CONVERSION

Natural turbulence electrical power generator — using wave action or random motion
[NASA-CASE-LAR-11991-1] c 44 N80-29834

WAVE AMPLIFICATION

Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26819

WAVE DIFFRACTION

Diffracted grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12567-1] c 74 N80-21140

WAVE FRONT RECONSTRUCTION

Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

WAVE GENERATION

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01319] c 09 N70-41875
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Material suspension within an acoustically excited resonant chamber — at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

WAVE INTERACTION

Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12298-1] c 33 N82-26569

WAVE PROPAGATION

Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

WAVE REFLECTION

Microwave flow detector Patent
[NASA-CASE-ARC-10859-1] c 10 N71-17602
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-26965

WAVE RESISTANCE

Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-13798-1] c 33 N85-29145

WAVE SCATTERING
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

WAVEFORMS
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-36695
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01393] c 09 N71-10659
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12429-1] c 10 N73-25240
Low disturbion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-18249
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

WAVEGUIDE ANTENNAS
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10001] c 07 N72-11148

WAVEGUIDE FILTERS
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-30806

WAVEGUIDE WINDOWS
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24806

WAVEGUIDES
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15850
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Resonant waveguide stark cell — using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-28245
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N78-18426
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32906
Coaxial phased array antenna
[NASA-CASE-MSC-16900-1] c 32 N81-14187
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26588
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Universal nondestructive MM-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N90-17009

WAVELENGTHS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31340
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10048] c 14 N72-17309
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Dual wavelength scanning Doppler velocimeter — without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Diatomic infrared gasdynamic laser — for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15982-1] c 71 N82-27086
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-25242-1] c 35 N89-26202
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-28796

WAVES
Natural turbulence electrical power generator — using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29634

WEAR
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

WEAR INHIBITORS
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

WEATHERPROOFING
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493

WEBS (SHEETS)
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

WEBS (SUPPORTS)
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12369-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12369-3] c 07 N79-14096

WEDGES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

WEIGHT (MASS)
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
System for indicating fuel-efficient aircraft attitude
[NASA-CASE-NPO-15381-2] c 06 N84-34443

WEIGHT INDICATORS
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-28945
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25556

WEIGHT MEASUREMENT
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-28945
Portable pallet weighing apparatus
[NASA-CASE-GSC-12799-1] c 35 N86-30094

WEIGHTLESSNESS
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-36020
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Measuring device Patent
[NASA-CASE-XMS-01548] c 14 N70-40220
Zero gravity starting means for liquid propellant rockets Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01497] c 05 N70-41287
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Zero gravity separator Patent
[NASA-CASE-XLE-00588] c 15 N71-15958
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16029
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12780] c 27 N71-16223
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11130] c 15 N71-17649
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21907
Zero gravity apparatus Patent
[NASA-CASE-XMF-08515] c 14 N71-23027
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24736
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11367
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Rotary plant growth accelerating apparatus — weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19395
Method of crystallization — in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Passive propellant system
[NASA-CASE-MFS-23643-1] c 20 N80-10278
Method and apparatus for producing concentric hollow spheres — inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22524

WEIGHTLESSNESS SIMULATION
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39868
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Harness assembly Patent
[NASA-CASE-MFS-14871] c 05 N71-12341
Whole body measurement systems — for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Weightlessness simulation system and process
[NASA-CASE-ARC-11548-1] c 14 N87-25344
Hollow fiber dinosist: Technical abstract
[NASA-CASE-MFS-25370J] c 35 N89-28790

WELD STRENGTH
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

WELD TESTS
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21484

WELDED JOINTS
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10633-2] c 37 N74-11300
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-23907-1] c 26 N76-19257
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27588
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

WELDED STRUCTURES
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31962
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

WELDING
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N71-39804
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Apparatus for welding sheet material — butt joints
[NASA-CASE-XMS-01380] c 37 N75-27376
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23855
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154

Joining lead wires to thin platinum alloy films
(NASA-CASE-LEW-13934-1) c 35 N83-35308
Method of repairing hidden leaks in tubes
(NASA-CASE-MFS-19798-1) c 37 N86-32736
Alignment and assembly tool for very large diameter cylinders
(NASA-CASE-MFS-28001-2) c 37 N88-14360
Optically controlled welding system
(NASA-CASE-MFS-29291-1) c 37 N89-12968

WELDING MACHINES
Apparatus for welding torch angle and seam tracking control Patent
(NASA-CASE-XMF-03287) c 15 N71-15607
Automatic welding speed controller Patent
(NASA-CASE-XMF-01730) c 15 N71-23050
Electric welding torch Patent
(NASA-CASE-XMF-02300) c 15 N71-23798
Welding skate with computerized control Patent
(NASA-CASE-XMF-07069) c 15 N71-25615
Computerized system for translating a torch head
(NASA-CASE-MFS-22620-1) c 37 N79-10421
Welding torch with arc light reflector
(NASA-CASE-MFS-29134-1) c 74 N87-17480
Welding monitoring system
(NASA-CASE-MFS-29177-1) c 37 N88-14362

WET CELLS
Method and device for determining battery state of charge Patent
(NASA-CASE-NPO-10184) c 03 N71-20407

WETTING
Pretreatment method for anti-wettable materials
(NASA-CASE-XMS-03537) c 15 N69-21471

WHEATSTONE BRIDGES
Self-balancing strain gage transducer Patent
(NASA-CASE-MFS-12827) c 14 N71-17888
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
(NASA-CASE-XLA-02810) c 14 N71-25901
Temperature control system with a pulse width modulated bridge
(NASA-CASE-NPO-11304) c 14 N73-26430
Instrumentation for sensing moisture content of material using a transient thermal pulse
(NAS 1.71:NPO-15494-2) c 35 N85-34373

WHEELS
Non-backdriveable free wheeling coupling
(NASA-CASE-MSC-20475-1) c 37 N87-17007

WHISKER COMPOSITES
Reinforced metallic composites Patent
(NASA-CASE-XLE-00226) c 17 N70-38490

WHISKERS (CRYSTALS)
Catalyst for growth of boron carbide single crystal whiskers
(NASA-CASE-XHQ-03903) c 15 N69-21922

WICKS
Method of forming a wick for a heat pipe
(NASA-CASE-NPO-13091-1) c 34 N78-27515
Monogroove heat pipe design: Insulated liquid channel with bridging wick
(NASA-CASE-MSC-20497-1) c 34 N85-29160
Polymeric heat pipe wick
(NASA-CASE-GSC-13019-1) c 34 N88-29133
Ceramic heat pipe wick
(NASA-CASE-GSC-13199-1) c 27 N90-23541

WIDE ANGLE LENSES
Wide angle long eye relief eyepiece Patent
(NASA-CASE-XMS-06056-1) c 23 N71-24857

WIDEBAND COMMUNICATION
Wideband heterodyne receiver for laser communication system
(NASA-CASE-GSC-12063-1) c 32 N77-28348
Multiple band circularly polarized microstrip antenna
(NASA-CASE-MSC-15934-1) c 32 N80-32504

WINCHES
Winch having cable position and load indicators Patent
(NASA-CASE-MSC-12052-1) c 15 N71-24389

WIND DIRECTION
Radionuclide counting technique for measuring wind velocity and direction
(NASA-CASE-LAR-12971-1) c 47 N84-28252
Cable suspended windmill
(NASA-CASE-LAR-13434-1) c 37 N90-23742

WIND EFFECTS
Viscous pendulum damper Patent
(NASA-CASE-LAR-10274-1) c 14 N71-17838
Aircraft lifmeter
(NASA-CASE-LAR-12518-1) c 06 N88-27280

WIND MEASUREMENT
Passive optical wind and turbulence detection system Patent
(NASA-CASE-XMF-14032) c 20 N71-16340
Maximeters (peak wind speed anemometers)
(NASA-CASE-MFS-20616) c 14 N73-25480
Wind sensor
(NASA-CASE-NPO-15462-1) c 35 N78-24324
Focused laser Doppler velocimeter
(NASA-CASE-MFS-23178-1) c 35 N77-10493
Wind measurement system
(NASA-CASE-MFS-23362-1) c 47 N77-10753

WIND PROFILES
Wind velocity probing device and method Patent
(NASA-CASE-XLA-02081) c 20 N71-16281

WIND SHEAR
CAT altitude avoidance system
(NASA-CASE-NPO-15351-1) c 06 N83-10040
Aircraft lifmeter
(NASA-CASE-LAR-12518-1) c 06 N88-27280

WIND TUNNEL APPARATUS
Wind tunnel airstream oscillating apparatus Patent
(NASA-CASE-XLA-00112) c 11 N70-33287
Electric arc device for heating gases Patent
(NASA-CASE-XAC-00319) c 25 N70-41829
Test unit free-flight suspension system Patent
(NASA-CASE-XLA-00936) c 11 N71-15826
Burst diaphragm flow initiator Patent
(NASA-CASE-MFS-12915) c 11 N71-17800
Electric arc apparatus Patent
(NASA-CASE-XAC-01877) c 09 N71-20816
Model launcher for wind tunnels Patent
(NASA-CASE-XNP-00578) c 11 N71-23030
Wind tunnel microphone structure Patent
(NASA-CASE-XNP-00250) c 11 N71-28779
Wind tunnel
(NASA-CASE-LAR-10135-1) c 09 N79-21083
Metric half-span model support system
(NASA-CASE-LAR-12441-1) c 09 N82-23254
Airfoil flutter model suspension system
(NASA-CASE-LAR-13522-1-SB) c 09 N87-25334

WIND TUNNEL CALIBRATION
Rotary target V-block
(NASA-CASE-LAR-12307-3) c 35 N84-18523

WIND TUNNEL DRIVES
Electric arc driven wind tunnel Patent
(NASA-CASE-XMF-00411) c 11 N70-38913

WIND TUNNEL MODELS
Flow field simulation Patent
(NASA-CASE-LAR-11136) c 12 N71-20436
Multilegged support system Patent
(NASA-CASE-XLA-01326) c 11 N71-21481
Model launcher for wind tunnels Patent
(NASA-CASE-XNP-03578) c 11 N71-23030
Wind tunnel model damper Patent
(NASA-CASE-XLA-09480) c 11 N71-30612
Wind tunnel model and method
(NASA-CASE-LAR-10613-1) c 09 N74-17955
Method for determining thermo-physical properties of specimens — photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
(NASA-CASE-LAR-11053-1) c 25 N74-18551
Metric half-span model support system
(NASA-CASE-LAR-12441-1) c 09 N82-23254
Aeroelastic instability stoppers for wind tunnel models
(NASA-CASE-LAR-12458-1) c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
(NASA-CASE-LAR-12720-1) c 44 N83-21504
Model mount system for testing flutter
(NASA-CASE-LAR-12990-1) c 09 N84-34448
Airfoil flutter model suspension system
(NASA-CASE-LAR-13522-1-SB) c 09 N87-25334

WIND TUNNEL NOZZLES
Multi-purpose wind tunnel reaction control model block
(NASA-CASE-MSC-19706-1) c 09 N78-31129
Wind tunnel supplementary Mach number minimum section insert
(NASA-CASE-LAR-12530-1) c 09 N82-11088

WIND TUNNEL TESTS
Metallic hot wire anemometer — for high speed wind tunnel tests
(NASA-CASE-ARC-10911-1) c 35 N77-20400
Multi-purpose wind tunnel reaction control model block
(NASA-CASE-MSC-19706-1) c 09 N78-31129
Metric half-span model support system
(NASA-CASE-LAR-12441-1) c 09 N82-23254
Miniature remote dead weight calibrator
(NASA-CASE-LAR-13564-1) c 35 N87-25558
Device for quick change-over between wind tunnel force and pressure testing
(NASA-CASE-LAR-13513-1) c 35 N87-28684
Thermal remote anemometer system
(NASA-CASE-LAR-13508-1) c 35 N88-23992

WIND TUNNEL WALLS
Sound shield
(NASA-CASE-LAR-13993-1) c 71 N83-17205

WIND TUNNELS
Thin film gauge — for measuring convective heat transfer rates along test surfaces in wind tunnels
(NASA-CASE-NPO-10617-1) c 35 N74-22596
Wind tunnel flow generation section
(NASA-CASE-ARC-10710-1) c 09 N75-12969
Apparatus for reducing aerodynamic noise in a wind tunnel
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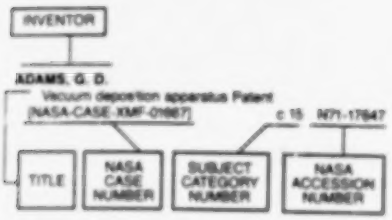

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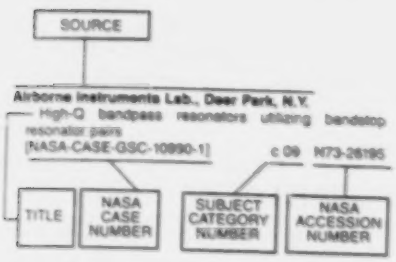

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[NASA-CASE-XNP-06942] c 28 N71-23293
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[NASA-CASE-MFS-20096] c 14 N71-30026
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[NASA-CASE-XMS-05890] c 09 N71-23191
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[NASA-CASE-MSC-10960-1] c 03 N71-24718
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[NASA-CASE-LAR-10270-1] c 32 N72-25877
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[NASA-CASE-MSC-13335-1] c 06 N72-31140
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[NASA-CASE-XNP-03830] c 14 N69-24331
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[NASA-CASE-LEW-12419-1] c 07 N77-14025
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[NASA-CASE-LEW-12830-1] c 07 N77-23106
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[NASA-CASE-LEW-12317-1] c 07 N78-17055
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[NASA-CASE-LEW-12380-1] c 07 N78-17056
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[NASA-CASE-LEW-12452-1] c 07 N78-25089
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[NASA-CASE-LEW-12793-1] c 37 N79-11403
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[NASA-CASE-LEW-12389-3] c 07 N79-14096
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[NASA-CASE-LEW-12668-1] c 71 N79-14871
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-16039
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[NASA-CASE-LEW-13201-1] c 07 N81-14999
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[NASA-CASE-LEW-12907-2] c 07 N81-19115
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[NASA-CASE-LEW-12584-2] c 07 N81-19116
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[NASA-CASE-LEW-13142-1] c 07 N83-36029
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[NASA-CASE-LEW-13582-2] c 07 N85-38196
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[NASA-CASE-MFS-21441-1] c 14 N73-30392
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[NASA-CASE-NPO-13180-1] c 35 N74-19090
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[NASA-CASE-MFS-21395-1] c 26 N74-26840
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[NASA-CASE-XNP-04780] c 08 N71-19667
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[NASA-CASE-XNP-02592] c 24 N71-20518
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[NASA-CASE-NPO-10006] c 07 N71-24583
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[NASA-CASE-XMS-06740-1] c 07 N71-26579
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[NASA-CASE-XNP-03413] c 03 N71-26726
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[NASA-CASE-XNP-04262-2] c 17 N71-26773
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[NASA-CASE-NPO-10001] c 07 N72-11148
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[NASA-CASE-NPO-10003] c 07 N72-22127
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[NASA-CASE-NPO-11377] c 15 N73-27406
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[NASA-CASE-GSC-11909] c 32 N74-20883
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[NASA-CASE-GSC-12058-1] c 74 N77-26942
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[NASA-CASE-GSC-12059-1] c 35 N77-27366
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[NASA-CASE-GSC-12146-1] c 33 N78-32340
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[NASA-CASE-MSC-19035-1] c 32 N81-15179
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[NASA-CASE-MFS-13532] c 18 N72-17532
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[NASA-CASE-NPO-13969-1] c 76 N79-23796

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[NASA-CASE-XMF-04238] c 09 N69-39734
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(NASA-CASE-XNP-09750) c 14 N69-39937
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Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
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Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Temperature telemetric transmitter Patent
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Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Noise limiter Patent
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Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10718] c 09 N71-24892
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Process for reducing secondary electron emission Patent
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Minimal logic block encoder Patent
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Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
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Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

Lockheed Missiles and Space Co., Huntsville, AL.
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

Lockheed Missiles and Space Co., Sunnyvale, CA.
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
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[NASA-CASE-MSC-13281] c 31 N72-18859
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Whole body measurement systems
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Four phase logic systems
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Strain arrestor plate for fused silica tile
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
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[NASA-CASE-MSC-14831-1] c 25 N78-10225
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550

Lockheed Propulsion Co., Redlands, CA.
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534

LTV Aerospace Corp., Dallas, TX.
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

LTV Aerospace Corp., Hampton, VA.
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

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Macon-Rust Co., Lexington, KY.
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

Marlin-Rockwell Corp., Jamestown, NY.
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446

Marquardt Corp., Van Nuys, CA.
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

Martin Marietta Aerospace, Denver, CO.
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Pulse transducer with artifact signal attenuator
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Urine collection apparatus
[NASA-CASE-MSC-18381-1] c 52 N81-28740

Martin Marietta Corp., Baltimore, MD.
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199

Martin Marietta Corp., Denver, CO.
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

Low distortion automatic phase control circuit
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
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[NASA-CASE-MSC-14273-1] c 34 N75-33342
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

Maryland Univ., College Park.
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722

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Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10858
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
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[NASA-CASE-XGS-03644] c 16 N71-18614
Power supply Patent
[NASA-CASE-XMS-02158] c 10 N71-22961
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13843
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Vapor deposition apparatus
[NASA-CASE-HQN-10462] c 25 N75-29192
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504

MB Associates, San Ramon, CA.
Hypervelocity gun
[NASA-CASE-XLE-03186-1] c 09 N79-21084

McDonnell Aircraft Co., Saint Louis, MO.
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Apparatus for purging systems handling toxic, corroslve, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Apparatus for welding sheet material
[NASA-CASE-XMS-01330] c 37 N75-27376
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114

McDonnell-Douglas Astronautics Co., Huntington Beach, CA.
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

McDonnell-Douglas Astronautics Co., Santa Monica, CA.
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

McDonnell-Douglas Astronautics Co., Saint Louis, MO.
Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176

McDonnell-Douglas Corp., Huntington Beach, CA.
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13483
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Thrust-isolating mounting
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Device for measuring tensile forces
[NASA-CASE-MFS-21726-1] c 35 N74-27865
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Phase-locked servo system
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Device for use in loading tension members
[NASA-CASE-MFS-21488-1] c 14 N75-24794

McDonnell-Douglas Corp., Long Beach, CA.
Optimized potted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

McDonnell-Douglas Corp., Newport Beach, CA.
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

McDonnell-Douglas Corp., Santa Monica, CA.
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16226

McDonnell-Douglas Corp., Saint Louis, MO.
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
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[NASA-CASE-MFS-23642-1] c 20 N80-10278

Medical Sciences Research Foundation, San Francisco, CA.
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

Mellon Inst., Pittsburgh, PA.
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

Melpar, Inc., Falls Church, VA.
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
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[NASA-CASE-XMS-04533] c 15 N71-23086

Metcom, Inc., Salem, MA.
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

Methodist Hospital, Houston, TX.
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

Microwave Electronics Corp., Palo Alto, CA.
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 18 N71-15550
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[NASA-CASE-XNP-06503] c 23 N71-29049

Microwave Research Corp., North Andover, MA.
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25276

Midwest Research Inst., Kansas City, MO.
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

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Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-26935

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Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-26783

Modern Machine and Tool Co., Newport News, VA.
Means for accommodating large overstrain in lead wires
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Monsanto Co., Saint Louis, MO.
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

Monsanto Research Corp., Dayton, OH.
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphathalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268

Motorola, Inc., Phoenix, AZ.
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

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[NASA-CASE-MSC-12166-1] c 09 N71-18600
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-19692
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
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[NASA-CASE-GSC-12137-1] c 33 N78-32338
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[NASA-CASE-NPO-14311-1] c 33 N82-29539

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Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
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[NASA-CASE-LAR-10682-1] c 02 N73-26004
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[NASA-CASE-GSC-11296-1] c 23 N73-30666
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[NASA-CASE-GSC-11222-1] c 16 N73-32391
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[NASA-CASE-LAR-11027-1] c 35 N74-18088
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[NASA-CASE-MFS-22040-1] c 35 N74-26948
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[NASA-CASE-LAR-11139-1] c 35 N74-32878
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[NASA-CASE-MFS-22343-1] c 33 N74-34838
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[NASA-CASE-ARC-10469-1] c 25 N75-12086
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[NASA-CASE-GSC-11748-1] c 36 N75-19654
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[NASA-CASE-MFS-22758-1] c 70 N75-26789
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[NASA-CASE-GSC-11829-1] c 35 N75-27331
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[NASA-CASE-MFS-22342-1] c 33 N75-30428
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[NASA-CASE-MFS-22297-1] c 75 N76-14931
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[NASA-CASE-GSC-11892-1] c 35 N76-15433
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[NASA-CASE-ARC-10448-3] c 35 N77-14406
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[NASA-CASE-ARC-10900-1] c 35 N77-24454
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[NASA-CASE-GSC-11571-1] c 36 N77-25499
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[NASA-CASE-MFS-22926-1] c 24 N77-27187
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[NASA-CASE-GSC-12063-1] c 73 N78-32848
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[NASA-CASE-LEW-12569-1] c 37 N79-10418
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[NASA-CASE-GSC-12297-1] c 37 N79-28549
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[NASA-CASE-ARC-11258-1] c 52 N80-33081
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[NASA-CASE-ARC-11117-1] c 52 N81-14812
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[NASA-CASE-MFS-23845-1] c 33 N81-17348
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[NASA-CASE-ARC-11257-1] c 04 N81-21047
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[NASA-CASE-ARC-11321-1] c 27 N81-27272
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[NASA-CASE-ARC-11244-1] c 23 N82-16174
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[NASA-CASE-LEW-13339-1] c 26 N82-31505
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[NASA-CASE-GSC-12223-1] c 60 N83-25378
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
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[NASA-CASE-ARC-11368-3] c 27 N84-22745
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[NASA-CASE-ARC-11359-1] c 51 N84-28361
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[NASA-CASE-ARC-11243-2] c 23 N85-33187
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Metal (2) 4,4',4',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
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[NASA-CASE-ARC-11427-1] c 24 N86-19380
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[NASA-CASE-ARC-11405-2] c 27 N86-19455

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Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Waveguide mixer
[NASA CASE-ERC-10179] c 07 N72-20141
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[NASA-CASE-ERC-10307] c 08 N72-21198
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[NASA-CASE-ERC-10119] c 26 N72-21701
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
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[NASA-CASE-ERC-10081] c 14 N72-28437
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[NASA-CASE-ERC-10392] c 21 N73-14892
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[NASA-CASE-ERC-10226-1] c 14 N73-16483
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[NASA-CASE-ERC-10439] c 02 N73-19004
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[NASA-CASE-ERC-10350] c 14 N73-20474
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[NASA-CASE-ERC-10276] c 14 N73-26432
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[NASA-CASE-HQN-10740-1] c 72 N74-19310
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[NASA-CASE-HQN-10832-1] c 71 N74-21014
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[NASA-CASE-HQN-10844-1] c 36 N75-19653
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Vapor deposition apparatus
[NASA-CASE-HQN-10462] c 25 N75-29192
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
System and method for tracking a signal source
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
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[NASA-CASE-HQN-10888-1] c 44 N79-14527
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[NASA-CASE-HQN-00573-1] c 37 N79-33468
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[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
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[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions
[NASA-CASE-HQN-10595-1] c 27 N82-29455
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.

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[NASA-CASE-XAR-03786] c 09 N69-21313
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02137] c 14 N69-27423
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00066] c 09 N70-33182
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Dynamic sensor Patent
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[NASA-CASE-XAC-00405] c 05 N70-41819
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
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[NASA-CASE-ARC-10812-1] c 07 N83-33864

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[NASA-CASE-ARC-11317-1] c 35 N83-34272

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[NASA-CASE-ARC-11402-1] c 27 N84-22744

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[NASA-CASE-ARC-11368-3] c 27 N84-22745

Carboranylmethylene-substituted phosphazenes and polymers thereof
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[NASA-CASE-ERC-10151] c 18 N71-29131
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[NASA-CASE-ERC-10100] c 09 N71-33510
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[NASA-CASE-GSC-12058-1] c 74 N77-26942
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[NASA-CASE-GSC-11839-3] c 60 N77-32731
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Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
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Solar cell and circuit array and process for nullifying magnetic fields Patent
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Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
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Digitally controlled frequency synthesizer Patent
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Buck boost voltage regulation circuit Patent
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Adaptive system and method for signal generation Patent
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Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
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Synchronous dc direct drive system Patent
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Antenna array at focal plane of reflector with coupling network for beam switching Patent
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Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 06 N71-33110

Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

Helical recorder arrangement for multiple channel recording on both sides of the tape
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Solenoid valve including guide for armature and valve member
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Fast response low power drain logic circuits
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Synchronous orbit battery cycler
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Location identification system
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A dc to ac to dc converter having transistor synchronous rectifiers
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Bacterial contamination monitor
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Honeycomb core structures of minimal surface tubule sections
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Cosmic dust or other similar outer space particles impact location detector
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Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
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Process for making RF shielded cable connector assemblies and the products formed thereby
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Inflight IFR procedures simulator
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[NASA-CASE-KSC-11155-1] c 04 N86-19304
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[NASA-CASE-KSC-11304-2] c 28 N86-23744
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[NASA-CASE-KSC-11292-1] c 85 N87-21755
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
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[NASA-CASE-KSC-11322-1] c 54 N89-29953
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Flow test device
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Visual target for retrofire attitude control
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System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39886
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
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[NASA-CASE-XMS-00863] c 05 N70-34857
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
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Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40083
Measuring device Patent
[NASA-CASE-XMS-01548] c 14 N70-40233
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Hypersonic reentry vehicle Patent
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Angular accelerometer Patent
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Discrete local altitude sensing device Patent
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Transpirationally cooled heat ablation system Patent
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Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10748
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Pressure suit tie-down mechanism Patent
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Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
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Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
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[NASA-CASE-XMS-09691-1] c 18 N71-15545
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
Fluid power transmission Patent
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Method of improving heat transfer characteristics in a nucleate boiling process Patent
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Heated element fluid flow sensor Patent
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Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
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[NASA-CASE-XMS-03722] c 15 N71-21530
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
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[NASA-CASE-XMS-04170] c 05 N71-22748
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
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[NASA-CASE-XMS-02399] c 05 N71-22896
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
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[NASA-CASE-XMS-08810] c 07 N71-24625
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
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Antenna array phase quadrature tracking system Patent
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[NASA-CASE-XLE-03583] c 31 N71-17829
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Method of lubricating rolling element bearings Patent
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Hot wire liquid level detector for cryogenic fluids Patent
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Foil seal Patent
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Generator for a space power system Patent
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Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Small plasma probe Patent
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Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
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Control of transverse instability in rocket combustors Patent
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High voltage divider system Patent
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Burning rate control of solid propellants Patent
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Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Cryogenic insulation system Patent
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Method for producing fiber reinforced metallic composites Patent
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Thermal shock apparatus Patent
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Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
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[NASA-CASE-XLE-03280] c 14 N71-23093
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
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[NASA-CASE-XLE-03629] c 17 N71-23248
Induction furnace with perforated tungsten foil shielding Patent
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[NASA-CASE-XLE-08569] c 03 N71-23449
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[NASA-CASE-XLE-01997] c 06 N71-23527
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Flow angle sensor and read out system Patent
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Shock tube powder dispersing apparatus Patent
(NASA-CASE-XLE-04946) c 17 N71-24911
Pneumatic oscillator Patent
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Heat activated cell with alkali anode and alkali salt electrolyte Patent
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Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
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Rolling element bearings Patent
(NASA-CASE-XLE-09527-2) c 15 N71-26189
Ion thruster accelerator system Patent
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Propellant feed isolator Patent
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Heat activated cell Patent
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Process for glass coating an ion accelerator grid Patent
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Gas core nuclear reactor Patent
(NASA-CASE-LEW-10250-1) c 22 N71-26759
Gas turbine combustor Patent
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Cyclic switch Patent
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Temperature reducing coating for metals subject to flame exposure Patent
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Liquid spray cooling method Patent
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Turbo-machine blade vibration damper Patent
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Corrosion resistant beryllium Patent
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Integrated thermoelectric generator/space antenna combination
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Sensing probe
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[NASA-CASE-NPO-10998-1] c 06 N73-32029
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[NASA-CASE-XMF-05868] c 26 N75-27125
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[NASA-CASE-LAR-11485-1] c 37 N75-21554
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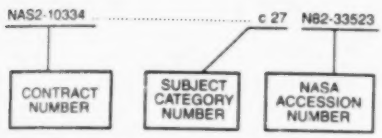

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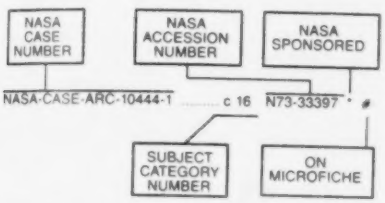

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NAS 1.71:NPO-17184-1-CU ..... c 32 N88-26541 * #
NAS 1.71:NPO-17197-1-CU ..... c 62 N89-29976 * #
NAS 1.71:NPO-17204-1-CU ..... c 34 N90-26292 * #
NAS 1.71:NPO-17207-1-CU ..... c 74 N88-25304 * #
NAS 1.71:NPO-17233-1-CU ..... c 33 N88-29095 * #
NAS 1.71:NPO-17275-1-CU ..... c 37 N89-29750 * #
NAS 1.71:NPO-17282-1-CU ..... c 36 N89-12856 * #
NAS 1.71:NPO-17291-1-CU ..... c 34 N88-23946 * #
NAS 1.71:NPO-17310-1-CU ..... c 17 N88-28946 * #
NAS 1.71:NPO-17334-1-CU ..... c 31 N88-23917 * #
NAS 1.71:NPO-17393-1-CU ..... c 33 N89-29679 * #
NAS 1.71:NPO-17399-1-CU ..... c 76 N89-14120 * #
NAS 1.71:NPO-17426-1-CU ..... c 33 N90-10329 * #
NAS 1.71:NPO-17436-1-CU ..... c 35 N89-13764 * #
NAS 1.71:NPO-17439-1-CU ..... c 52 N90-16391 * #
NAS 1.71:NPO-17453-1-CU ..... c 37 N89-13787 * #
NAS 1.71:NPO-17460-1-CU ..... c 25 N90-26098 * #
NAS 1.71:NPO-17524-1-CU ..... c 27 N90-10261 * #
NAS 1.71:NPO-17526-1-CU ..... c 35 N89-28796 * #
NAS 1.71:NPO-17534-1-CU ..... c 76 N89-30076 * #
NAS 1.71:NPO-17548-1-CU ..... c 32 N90-16104 * #
NAS 1.71:NPO-17562-1-CU ..... c 74 N89-24153 * #
NAS 1.71:NPO-17564-1-CU ..... c 32 N90-16974 * #
NAS 1.71:NPO-17569-1-CU ..... c 31 N90-26176 * #
NAS 1.71:NPO-17596-1-CU ..... c 35 N89-28795 * #
NAS 1.71:NPO-17604-1-CU ..... c 33 N90-16124 * #
NAS 1.71:NPO-17612-1-CU ..... c 74 N90-27487 * #
NAS 1.71:NPO-17621-1-CU ..... c 33 N90-17010 * #
NAS 1.71:NPO-17625-1-CU ..... c 34 N90-27070 * #
NAS 1.71:NPO-17626-1-CU ..... c 32 N89-28684 * #
NAS 1.71:NPO-17629-1-CU ..... c 60 N90-27268 * #
NAS 1.71:NPO-17630-1-CU ..... c 31 N89-29577 * #
NAS 1.71:NPO-17633-1-CU ..... c 27 N90-15263 * #
NAS 1.71:NPO-17640-1-CU ..... c 33 N90-17011 * #
NAS 1.71:NPO-17653-1-CU ..... c 51 N90-27239 * #
NAS 1.71:NPO-17684-1-CU ..... c 62 N90-27384 * #
NAS 1.71:NPO-17703-1-CU ..... c 74 N89-29191 * #
NAS 1.71:NPO-17716-1-CU ..... c 62 N90-10608 * #
NAS 1.71:NPO-17723-1-CU ..... c 76 N90-26685 * #
NAS 1.71:NPO-17724-1-CU ..... c 76 N90-27517 * #
NAS 1.71:NPO-17736-1-CU ..... c 76 N90-17455 * #
NAS 1.71:NPO-17785-1-CU ..... c 37 N89-26846 * #
NAS 1.71:NPO-17786-1-CU ..... c 35 N90-17104 * #
NAS 1.71:NPO-17801-1-CU ..... c 37 N90-27110 * #
NAS 1.71:NPO-17803-1-CU ..... c 62 N90-27385 * #
NAS 1.71:NPO-17809-1-CU ..... c 33 N90-27041 * #
NAS 1.71:NPO-17812-1-CU ..... c 76 N90-17456 * #
NAS 1.71:NPO-17820-1-CU ..... c 04 N90-16379 * #
NAS 1.71:NPO-17826-1-CU ..... c 27 N90-26952 * #
NAS 1.71:NPO-17830-1-CU ..... c 33 N90-27042 * #
NAS 1.71:NPO-17835-1-CU ..... c 76 N90-27518 * #
NAS 1.71:NPO-17845-1-CU ..... c 61 N90-27341 * #
NAS 1.71:NPO-17853-1-CU ..... c 32 N90-16975 * #
NAS 1.71:NPO-17858-1-CU ..... c 24 N90-26860 * #
NAS 1.71:NPO-17873-1-CU ..... c 32 N90-27015 * #
NAS 1.71:NPO-17897-1-CU ..... c 33 N90-27040 * #
NAS 1.71:NPO-17911-1-CU ..... c 32 N90-27016 * #
NAS 1.71:NPO-17913-1-CU ..... c 74 N90-27488 * #
NAS 1.71:NPO-17917-1-CU ..... c 37 N90-26339 * #
NAS 1.71:NPO-17939-1-CU ..... c 60 N90-26518 * #
NAS 1.71:NPO-17949-1-CU ..... c 76 N90-26684 * #
NAS 1.71:NPO-17954-1-CU ..... c 60 N90-26519 * #
NAS 1.71:NPO-17970-1-CU ..... c 43 N90-26384 * #
NAS 1.71:NST-00007-1 ..... c 45 N89-28967 * #
NAS 1.71:SSC-00004 ..... c 37 N90-15443 * #
NAS 1.71:WLP-10055-2 ..... c 35 N85-21598 *
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NASA-CASE-ARC-10009-1 ..... c 15 N71-17822 *
NASA-CASE-ARC-10017-1 ..... c 14 N72-29464 *
NASA-CASE-ARC-10020 ..... c 10 N72-17172 *
NASA-CASE-ARC-10030 ..... c 09 N71-12521 *
NASA-CASE-ARC-10042-2 ..... c 10 N72-11256 *
NASA-CASE-ARC-10043-1 ..... c 05 N71-11193 *
NASA-CASE-ARC-10050 ..... c 03 N71-33409 *
NASA-CASE-ARC-10097-2 ..... c 07 N73-25160 *
NASA-CASE-ARC-10098-1 ..... c 06 N71-24739 *
NASA-CASE-ARC-10099-1 ..... c 18 N71-15469 *
NASA-CASE-ARC-10100-1 ..... c 05 N71-24738 *
NASA-CASE-ARC-10101-1 ..... c 09 N71-33109 *
NASA-CASE-ARC-10105 ..... c 09 N72-17153 *
NASA-CASE-ARC-10106-1 ..... c 28 N72-22769 *
NASA-CASE-ARC-10131-1 ..... c 15 N71-27754 *
NASA-CASE-ARC-10132-1 ..... c 09 N71-24597 *
NASA-CASE-ARC-10134 ..... c 30 N72-17873 *
NASA-CASE-ARC-10136-1 ..... c 09 N72-22202 *
NASA-CASE-ARC-10137-1 ..... c 09 N71-28468 *
NASA-CASE-ARC-10138-1 ..... c 14 N72-24477 *
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NASA-CASE-ARC-10154-1 ..... c 14 N72-22440 *
NASA-CASE-ARC-10160-1 ..... c 23 N72-27728 *
NASA-CASE-ARC-10176-1 ..... c 15 N72-21464 *
NASA-CASE-ARC-10178-1 ..... c 09 N72-17152 *
NASA-CASE-ARC-10179-1 ..... c 21 N72-22619 *
NASA-CASE-ARC-10180-1 ..... c 27 N74-12814 *
NASA-CASE-ARC-10192 ..... c 09 N72-21245 *
NASA-CASE-ARC-10194-1 ..... c 23 N73-20741 *
NASA-CASE-ARC-10196-1 ..... c 18 N73-13562 *
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NASA-CASE-ARC-10198 ..... c 34 N78-17336 *
NASA-CASE-ARC-10199 ..... c 34 N78-17337 *
NASA-CASE-ARC-10263-1 ..... c 14 N72-22438 *
NASA-CASE-ARC-10264-1 ..... c 09 N73-20231 *
NASA-CASE-ARC-10265-1 ..... c 10 N72-28240 *
NASA-CASE-ARC-10268-1 ..... c 33 N75-29318 *
NASA-CASE-ARC-10269-1 ..... c 10 N72-16172 *
NASA-CASE-ARC-10275-1 ..... c 05 N72-22092 *
NASA-CASE-ARC-10278-1 ..... c 14 N73-25463 *
NASA-CASE-ARC-10302-1 ..... c 51 N74-15778 *
NASA-CASE-ARC-10304-1 ..... c 18 N73-26572 *
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NASA-CASE-ARC-10322-1 ..... c 35 N76-18403 *
NASA-CASE-ARC-10325 ..... c 06 N72-25147 *
NASA-CASE-ARC-10329-1 ..... c 05 N73-26072 *
NASA-CASE-ARC-10330-1 ..... c 09 N73-32112 *
NASA-CASE-ARC-10344-2 ..... c 35 N75-26334 *
NASA-CASE-ARC-10345-1 ..... c 15 N73-12488 *
NASA-CASE-ARC-10348-1 ..... c 33 N75-19518 *
NASA-CASE-ARC-10362-1 ..... c 14 N73-32326 *
NASA-CASE-ARC-10364-2 ..... c 33 N75-25041 *
NASA-CASE-ARC-10364-3 ..... c 33 N75-19520 *
NASA-CASE-ARC-10370-1 ..... c 36 N75-31426 *
NASA-CASE-ARC-10441-1 ..... c 35 N74-15126 *
NASA-CASE-ARC-10442-1 ..... c 35 N74-15093 *
NASA-CASE-ARC-10443-1 ..... c 14 N73-20477 *
NASA-CASE-ARC-10444-1 ..... c 16 N73-33397 *
NASA-CASE-ARC-10445-1 ..... c 31 N76-31365 *
NASA-CASE-ARC-10447-1 ..... c 52 N74-22771 *
NASA-CASE-ARC-10448-2 ..... c 74 N75-12732 *
NASA-CASE-ARC-10448-3 ..... c 35 N77-14408 *
NASA-CASE-ARC-10456-1 ..... c 05 N75-12930 *
NASA-CASE-ARC-10461-1 ..... c 44 N74-33379 *
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NASA-CASE-ARC-10466-1 ..... c 60 N75-13539 *
NASA-CASE-ARC-10467-1 ..... c 09 N73-14214 *
NASA-CASE-ARC-10468-1 ..... c 14 N73-33361 *
NASA-CASE-ARC-10469-1 ..... c 25 N75-12086 *
NASA-CASE-ARC-10470-1 ..... c 02 N73-26005 *
NASA-CASE-ARC-10470-3 ..... c 05 N76-29217 *
NASA-CASE-ARC-10516-1 ..... c 70 N74-21300 *
NASA-CASE-ARC-10519-2 ..... c 05 N75-25915 *
NASA-CASE-ARC-10583-1 ..... c 52 N76-29894 *
NASA-CASE-ARC-10592-1 ..... c 27 N74-21156 *
NASA-CASE-ARC-10592-2 ..... c 27 N76-32315 *
NASA-CASE-ARC-10593-1 ..... c 33 N74-27682 *
NASA-CASE-ARC-10596-1 ..... c 33 N74-21851 *
NASA-CASE-ARC-10597-1 ..... c 52 N74-20726 *
NASA-CASE-ARC-10598-1 ..... c 75 N74-30156 *
NASA-CASE-ARC-10599-1 ..... c 05 N73-26071 *
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NASA-CASE-ARC-10633-1 ..... c 25 N74-26947 *
NASA-CASE-ARC-10637-1 ..... c 35 N75-16783 *
NASA-CASE-ARC-10639-1 ..... c 35 N78-13400 *
NASA-CASE-ARC-10642-1 ..... c 36 N76-14447 *
NASA-CASE-ARC-10643-1 ..... c 25 N75-12087 *
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NASA-CASE-ARC-10711-2 ..... c 33 N76-21390 *
NASA-CASE-ARC-10712-1 ..... c 07 N74-33218 *
NASA-CASE-ARC-10714-1 ..... c 27 N76-15310 *
NASA-CASE-ARC-10716-1 ..... c 35 N77-20399 *
NASA-CASE-ARC-10721-1 ..... c 27 N76-22376 *
NASA-CASE-ARC-10722-1 ..... c 51 N75-25503 *
NASA-CASE-ARC-10753-1 ..... c 54 N75-27760 *
NASA-CASE-ARC-10754-1 ..... c 07 N75-24736 *
NASA-CASE-ARC-10755-2 ..... c 34 N76-27517 *
NASA-CASE-ARC-10756-1 ..... c 54 N77-32721 *
NASA-CASE-ARC-10780-1 ..... c 25 N76-22323 *
NASA-CASE-ARC-10781-1 ..... c 07 N77-18154 *
NASA-CASE-ARC-10802-1 ..... c 35 N75-30502 *
NASA-CASE-ARC-10806-1 ..... c 35 N75-29381 *
NASA-CASE-ARC-10807-1 ..... c 05 N77-17029 *
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NASA-CASE-ARC-10812-1 ..... c 07 N83-33884 *
NASA-CASE-ARC-10813-1 ..... c 27 N76-16230 *
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NASA-CASE-ARC-10820-1 ..... c 35 N78-19466 *
NASA-CASE-ARC-10849-1 ..... c 17 N76-29347 *
NASA-CASE-ARC-10855-1 ..... c 52 N77-10780 *
NASA-CASE-ARC-10892-2 ..... c 27 N79-14214 *
NASA-CASE-ARC-10896-1 ..... c 35 N78-19465 *
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NASA-CASE-ARC-10974-1 ..... c 34 N77-27345 *
NASA-CASE-ARC-10975-1 ..... c 33 N79-15245 *
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NASA-CASE-ARC-10981-1 ..... c 37 N78-27425 *
NASA-CASE-ARC-10984-1 ..... c 32 N77-24328 *
NASA-CASE-ARC-10985-1 ..... c 52 N79-10724 *
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NASA-CASE-ARC-10991-1 ..... c 25 N78-14104 *
NASA-CASE-ARC-10992-1 ..... c 26 N78-32229 *
NASA-CASE-ARC-10994-1 ..... c 52 N76-33635 * #
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NASA-CASE-ARC-11040-2 ..... c 24 N79-27184 * #

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NASA-CASE-ARC-11058-1 ..... c 54 N78-31735 *
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NASA-CASE-ARC-11059-1 ..... c 54 N78-32721 *
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NASA-CASE-ARC-11097-1 ..... c 25 N82-24312 *
NASA-CASE-ARC-11100-1 ..... c 54 N78-31736 *
NASA-CASE-ARC-11101-1 ..... c 54 N78-17675 *
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NASA-CASE-ARC-11110-1 ..... c 37 N82-24492 *
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NASA-CASE-ARC-11116-1 ..... c 33 N82-24420 *
NASA-CASE-ARC-11117-1 ..... c 52 N81-14612 *
NASA-CASE-ARC-11118-1 ..... c 52 N81-29764 *
NASA-CASE-ARC-11118-2 ..... c 52 N81-14613 *
NASA-CASE-ARC-11120-1 ..... c 52 N80-18691 *
NASA-CASE-ARC-11121-1 ..... c 25 N79-14169 *
NASA-CASE-ARC-11154-1 ..... c 25 N80-23383 *
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NASA-CASE-ARC-11164-1 ..... c 44 N83-34448 *
NASA-CASE-ARC-11167-1 ..... c 52 N81-25662 *
NASA-CASE-ARC-11169-1 ..... c 24 N79-24062 *
NASA-CASE-ARC-11170-1 ..... c 27 N79-11215 * #
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NASA-CASE-ARC-11176-1 ..... c 27 N82-18389 *
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NASA-CASE-ARC-11241-1 ..... c 25 N81-14016 *
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NASA-CASE-ARC-11244-1 ..... c 23 N82-16174 *
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NASA-CASE-ARC-11246-1 ..... c 31 N83-34073 *
NASA-CASE-ARC-11248-1 ..... c 27 N81-17259 *
NASA-CASE-ARC-11251-1 ..... c 37 N81-17433 *
NASA-CASE-ARC-11252-1 ..... c 25 N83-36116 *
NASA-CASE-ARC-11253-1 ..... c 27 N81-17262 *
NASA-CASE-ARC-11253-2 ..... c 27 N82-24338 *
NASA-CASE-ARC-11253-3 ..... c 27 N81-24258 *
NASA-CASE-ARC-11256-1 ..... c 15 N82-24272 *
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NASA-CASE-ARC-11264-2 ..... c 52 N83-29991 * #
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NASA-CASE-ARC-11312-1 ..... c 36 N83-34304 *
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NASA-CASE-ARC-11368-3 ..... c 27 N84-22745 *
NASA-CASE-ARC-11370-1 ..... c 27 N84-22750 *
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NASA-CASE-ARC-11422-1 ..... c 35 N86-20751 *
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NASA-CASE-ARC-11424-1 ..... c 27 N85-34281 *
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NASA-CASE-ARC-11425-3 ..... c 23 N90-23475 *
NASA-CASE-ARC-11425-4 ..... c 23 N90-20133 *
NASA-CASE-ARC-11426-1 ..... c 09 N84-12193 * #
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NASA-CASE-ARC-11427-1 ..... c 24 N86-19380 *
NASA-CASE-ARC-11427-2 ..... c 27 N86-27451 *
NASA-CASE-ARC-11428-1 ..... c 23 N86-19376 *
NASA-CASE-ARC-11428-2 ..... c 27 N87-16909 *
NASA-CASE-ARC-11428-3 ..... c 23 N88-24692 *
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NASA-CASE-ARC-11429-2-CU ... c 27 N87-22845 *
NASA-CASE-ARC-11429-3CU ... c 27 N87-16908 *
NASA-CASE-ARC-11429-4CU ... c 27 N87-15304 *
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NASA-CASE-ARC-11547-1 ..... c 36 N87-17026 *
NASA-CASE-ARC-11548-1 ..... c 27 N87-25469 *
NASA-CASE-ARC-11610-1 ..... c 54 N86-28619 *
NASA-CASE-ARC-11611-1 ..... c 74 N87-28416 *
NASA-CASE-ARC-11613-1 ..... c 33 N87-28833 *
NASA-CASE-ARC-11615-1SB ..... c 24 N86-28131 *
NASA-CASE-ARC-11616-1 ..... c 54 N86-28618 *
NASA-CASE-ARC-11620-1 ..... c 37 N87-25573 *
NASA-CASE-ARC-11622-1 ..... c 44 N88-14492 *
NASA-CASE-ARC-11631-1 ..... c 34 N87-21255 *
NASA-CASE-ARC-11633-1 ..... c 08 N87-23631 *
NASA-CASE-ARC-11634-1 ..... c 36 N88-14350 *
NASA-CASE-ARC-11635-1 ..... c 18 N90-16860 *
NASA-CASE-ARC-11636-1 ..... c 05 N86-28914 *
NASA-CASE-ARC-11641-1 ..... c 24 N88-18628 *
NASA-CASE-ARC-11643-1-SB ..... c 23 N87-23698 *
NASA-CASE-ARC-11648-1 ..... c 14 N87-25344 *
NASA-CASE-ARC-11649-1-SB ..... c 27 N88-29040 *
NASA-CASE-ARC-11649-2-SB ..... c 27 N90-21177 *
NASA-CASE-ARC-11652-1 ..... c 27 N87-23737 * #
NASA-CASE-ARC-11878-1 ..... c 36 N90-25340 *
NASA-CASE-ARC-14408-1 ..... c 27 N82-33523 * #

NASA-CASE-ERC-10001 ..... c 23 N71-24868 *
NASA-CASE-ERC-10011 ..... c 07 N71-29065 *
NASA-CASE-ERC-10013 ..... c 09 N71-26678 *
NASA-CASE-ERC-10014 ..... c 14 N71-28863 *
NASA-CASE-ERC-10015-2 ..... c 10 N72-27246 *
NASA-CASE-ERC-10017 ..... c 16 N71-15567 *
NASA-CASE-ERC-10019 ..... c 16 N71-15551 *
NASA-CASE-ERC-10020 ..... c 16 N71-26154 *
NASA-CASE-ERC-10022 ..... c 15 N71-26635 *
NASA-CASE-ERC-10031 ..... c 12 N71-18603 *
NASA-CASE-ERC-10032 ..... c 10 N71-25900 *
NASA-CASE-ERC-10033 ..... c 14 N71-26672 *
NASA-CASE-ERC-10034 ..... c 15 N71-24896 *
NASA-CASE-ERC-10041 ..... c 08 N71-29138 *
NASA-CASE-ERC-10044-1 ..... c 14 N71-27090 *
NASA-CASE-ERC-10045 ..... c 15 N71-24910 *
NASA-CASE-ERC-10046 ..... c 10 N71-18722 *
NASA-CASE-ERC-10048 ..... c 09 N72-25251 *
NASA-CASE-ERC-10065 ..... c 09 N71-27364 *
NASA-CASE-ERC-10072 ..... c 09 N70-11148 * #
NASA-CASE-ERC-10073-1 ..... c 24 N74-19769 *
NASA-CASE-ERC-10075-2 ..... c 09 N72-22196 *
NASA-CASE-ERC-10075 ..... c 09 N71-24800 *
NASA-CASE-ERC-10081 ..... c 14 N72-26437 *
NASA-CASE-ERC-10087-2 ..... c 14 N72-31446 *
NASA-CASE-ERC-10087 ..... c 14 N71-27334 *
NASA-CASE-ERC-10088 ..... c 26 N71-25490 *
NASA-CASE-ERC-10089 ..... c 23 N72-17747 *
NASA-CASE-ERC-10090 ..... c 21 N71-24948 *
NASA-CASE-ERC-10097 ..... c 15 N71-28465 *
NASA-CASE-ERC-10098 ..... c 09 N71-26618 *
NASA-CASE-ERC-10100 ..... c 09 N71-33519 *
NASA-CASE-ERC-10108 ..... c 06 N72-21094 *
NASA-CASE-ERC-10112 ..... c 07 N72-21119 *
NASA-CASE-ERC-10113 ..... c 09 N71-27053 *
NASA-CASE-ERC-10119 ..... c 26 N72-21701 *
NASA-CASE-ERC-10120 ..... c 26 N89-33482 * #
NASA-CASE-ERC-10125 ..... c 09 N71-24893 *
NASA-CASE-ERC-10138 ..... c 26 N71-14354 *
NASA-CASE-ERC-10139 ..... c 09 N72-17154 *
NASA-CASE-ERC-10150 ..... c 14 N71-28992 *
NASA-CASE-ERC-10151 ..... c 16 N71-29131 *
NASA-CASE-ERC-10174 ..... c 14 N72-25409 *
NASA-CASE-ERC-10178 ..... c 16 N71-24832 *
NASA-CASE-ERC-10179 ..... c 07 N72-20141 *
NASA-CASE-ERC-10180-1 ..... c 60 N74-20836 *
NASA-CASE-ERC-10187 ..... c 16 N89-31343 * #
NASA-CASE-ERC-10208 ..... c 15 N70-10667 * #
NASA-CASE-ERC-10214 ..... c 09 N72-31235 *
NASA-CASE-ERC-10222 ..... c 09 N72-22199 *
NASA-CASE-ERC-10224-2 ..... c 09 N73-27150 * #
NASA-CASE-ERC-10224 ..... c 09 N72-25261 *
NASA-CASE-ERC-10226-1 ..... c 14 N73-16483 *
NASA-CASE-ERC-10248 ..... c 14 N72-17323 *
NASA-CASE-ERC-10267 ..... c 09 N72-23173 *
NASA-CASE-ERC-10268 ..... c 09 N72-25252 *
NASA-CASE-ERC-10275 ..... c 26 N72-25680 *
NASA-CASE-ERC-10276 ..... c 14 N73-26432 *
NASA-CASE-ERC-10283 ..... c 16 N72-25485 *
NASA-CASE-ERC-10285 ..... c 10 N73-16206 *
NASA-CASE-ERC-10292 ..... c 14 N72-25410 *
NASA-CASE-ERC-10307 ..... c 08 N72-21198 *
NASA-CASE-ERC-10324 ..... c 07 N72-25173 *
NASA-CASE-ERC-10325 ..... c 15 N72-25457 *
NASA-CASE-ERC-10338 ..... c 04 N72-33072 *
NASA-CASE-ERC-10339-1 ..... c 18 N73-30532 *
NASA-CASE-ERC-10350 ..... c 14 N73-20474 *
NASA-CASE-ERC-10363 ..... c 18 N72-25541 *
NASA-CASE-ERC-10364 ..... c 18 N72-25540 *
NASA-CASE-ERC-10365-1 ..... c 31 N73-32749 *
NASA-CASE-ERC-10392 ..... c 21 N73-14692 *
NASA-CASE-ERC-10403-1 ..... c 10 N73-26228 *
NASA-CASE-ERC-10412-1 ..... c 09 N73-12211 *
NASA-CASE-ERC-10419-1 ..... c 03 N75-30132 *
NASA-CASE-ERC-10439 ..... c 02 N73-19004 *
NASA-CASE-ERC-10468 ..... c 09 N72-20206 * #
NASA-CASE-ERC-10552 ..... c 09 N71-12539 *
NASA-CASE-ERC-11020 ..... c 14 N71-26774 *

NASA-CASE-FRC-10005 ..... c 15 N71-26145 *
NASA-CASE-FRC-10010 ..... c 10 N71-24862 *
NASA-CASE-FRC-10012 ..... c 14 N72-17329 *
NASA-CASE-FRC-10019 ..... c 15 N73-12487 *
NASA-CASE-FRC-10022 ..... c 12 N71-26548 *
NASA-CASE-FRC-10029-2 ..... c 05 N72-25121 *
NASA-CASE-FRC-10029 ..... c 09 N71-24818 *
NASA-CASE-FRC-10036 ..... c 09 N72-22200 *
NASA-CASE-FRC-10038 ..... c 15 N72-20444 *
NASA-CASE-FRC-10049-1 ..... c 04 N74-13420 *
NASA-CASE-FRC-10051-1 ..... c 35 N74-13129 *
NASA-CASE-FRC-10053 ..... c 14 N70-35587 * #
NASA-CASE-FRC-10060-1 ..... c 14 N73-27379 *
NASA-CASE-FRC-10063 ..... c 01 N71-12217 * #
NASA-CASE-FRC-10071-1 ..... c 32 N74-20813 *
NASA-CASE-FRC-10072-1 ..... c 33 N74-14939 *
NASA-CASE-FRC-10081-1 ..... c 37 N77-14477 *
NASA-CASE-FRC-10090-1 ..... c 33 N78-18306 *
NASA-CASE-FRC-10099-1 ..... c 05 N79-12061 *
NASA-CASE-FRC-10093-1 ..... c 35 N80-20560 *
NASA-CASE-FRC-10111-1 ..... c 37 N79-10419 *
NASA-CASE-FRC-10112-1 ..... c 35 N81-26431 *
NASA-CASE-FRC-10113-1 ..... c 33 N80-26599 *
NASA-CASE-FRC-10116-1 ..... c 33 N79-23345 *
NASA-CASE-FRC-11005-1 ..... c 06 N82-16075 *
NASA-CASE-FRC-11007-2 ..... c 05 N82-26277 *
NASA-CASE-FRC-11009-1 ..... c 06 N80-18036 *
NASA-CASE-FRC-11012-1 ..... c 52 N80-23969 *
NASA-CASE-FRC-11013-1 ..... c 43 N81-17499 *
NASA-CASE-FRC-11014-1 ..... c 33 N82-18494 *
NASA-CASE-FRC-11024-1 ..... c 02 N80-28300 *
NASA-CASE-FRC-11025-1 ..... c 33 N82-24417 *
NASA-CASE-FRC-11026-1 ..... c 24 N82-24296 *
NASA-CASE-FRC-11029-1 ..... c 06 N81-17057 *
NASA-CASE-FRC-11041-1 ..... c 33 N82-18493 *
NASA-CASE-FRC-11042-1 ..... c 60 N82-24839 *
NASA-CASE-FRC-11043-1 ..... c 06 N83-33882 *
NASA-CASE-FRC-11044-1 ..... c 37 N81-33483 *
NASA-CASE-FRC-11052-1 ..... c 04 N82-23231 *
NASA-CASE-FRC-11055-1 ..... c 33 N80-29583 * #
NASA-CASE-FRC-11058-1 ..... c 85 N82-33288 *
NASA-CASE-FRC-11062-1 ..... c 71 N82-16800 *
NASA-CASE-FRC-11065-1 ..... c 05 N83-19737 *
NASA-CASE-FRC-11068-1 ..... c 35 N84-12443 *
NASA-CASE-FRC-11072-1 ..... c 05 N83-27975 *

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NASA-CASE-GSC-10018-1 ..... c 44 N82-24644 *
NASA-CASE-GSC-10019-1 ..... c 44 N82-24641 *
NASA-CASE-GSC-10021-1 ..... c 09 N71-24595 *
NASA-CASE-GSC-10022-1 ..... c 10 N71-25982 *
NASA-CASE-GSC-10041-1 ..... c 10 N71-19418 *
NASA-CASE-GSC-10062 ..... c 14 N71-15605 *
NASA-CASE-GSC-10064-1 ..... c 10 N72-22235 *
NASA-CASE-GSC-10065-1 ..... c 10 N71-27136 *
NASA-CASE-GSC-10072 ..... c 18 N71-14014 *
NASA-CASE-GSC-10082-1 ..... c 10 N72-20221 *
NASA-CASE-GSC-10083-1 ..... c 30 N71-16090 *
NASA-CASE-GSC-10087-1 ..... c 02 N71-19287 *
NASA-CASE-GSC-10087-2 ..... c 21 N71-13958 *
NASA-CASE-GSC-10087-3 ..... c 07 N72-12060 *
NASA-CASE-GSC-10087-4 ..... c 07 N73-20174 *
NASA-CASE-GSC-10097-1 ..... c 08 N71-27210 *
NASA-CASE-GSC-10114-1 ..... c 10 N71-27366 *
NASA-CASE-GSC-10119-1 ..... c 07 N71-24821 *
NASA-CASE-GSC-10131-1 ..... c 07 N71-24824 *
NASA-CASE-GSC-10135 ..... c 33 N78-17296 *
NASA-CASE-GSC-10185-1 ..... c 07 N72-12081 *

NASA-CASE-GSC-10186 ..... c 08 N71-33110 *
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NASA-CASE-GSC-10216-1 ..... c 23 N71-26722 *
NASA-CASE-GSC-10218-1 ..... c 15 N72-21465 *
NASA-CASE-GSC-10220-1 ..... c 07 N71-27233 *
NASA-CASE-GSC-10221-1 ..... c 09 N72-23171 *
NASA-CASE-GSC-10225-1 ..... c 06 N73-27086 *
NASA-CASE-GSC-10299-1 ..... c 09 N71-24804 *
NASA-CASE-GSC-10303 ..... c 15 N72-22487 *
NASA-CASE-GSC-10306-1 ..... c 15 N71-24694 *
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NASA-CASE-GSC-10376-1 ..... c 14 N71-27407 *
NASA-CASE-GSC-10390-1 ..... c 07 N72-11149 *
NASA-CASE-GSC-10413 ..... c 10 N71-26531 *
NASA-CASE-GSC-10441-1 ..... c 14 N71-27325 *
NASA-CASE-GSC-10452 ..... c 07 N71-12396 *
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NASA-CASE-GSC-10566-1 ..... c 15 N72-18477 *
NASA-CASE-GSC-10580-1 ..... c 31 N73-14853 *
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NASA-CASE-GSC-10614-1 ..... c 09 N72-11224 *
NASA-CASE-GSC-10640-1 ..... c 26 N72-18766 *
NASA-CASE-GSC-10656-1 ..... c 09 N72-25249 *
NASA-CASE-GSC-10667-1 ..... c 10 N71-33129 *
NASA-CASE-GSC-10668-1 ..... c 07 N71-26430 *
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NASA-CASE-GSC-10695-1 ..... c 09 N72-25259 *
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NASA-CASE-GSC-10709-1 ..... c 28 N71-25213 *
NASA-CASE-GSC-10710-1 ..... c 28 N71-27094 *
NASA-CASE-GSC-10735-1 ..... c 10 N71-26085 *
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NASA-CASE-GSC-10791-1 ..... c 15 N73-14469 *
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NASA-CASE-GSC-10949-1 ..... c 07 N71-28965 * #
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NASA-CASE-GSC-10984-1 ..... c 37 N75-26371 *
NASA-CASE-GSC-10990-1 ..... c 09 N73-26195 *
NASA-CASE-GSC-11013-1 ..... c 09 N73-19234 *
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NASA-CASE-GSC-11063-1 ..... c 37 N77-27400 *
NASA-CASE-GSC-11074-1 ..... c 14 N73-28489 *
NASA-CASE-GSC-11077-1 ..... c 02 N73-13008 *
NASA-CASE-GSC-11079-1 ..... c 37 N75-18574 *
NASA-CASE-GSC-11092-2 ..... c 04 N73-27052 *
NASA-CASE-GSC-11095-1 ..... c 14 N72-10375 * #
NASA-CASE-GSC-11126-1 ..... c 09 N72-25253 *
NASA-CASE-GSC-11127-1 ..... c 09 N75-24758 *
NASA-CASE-GSC-11133-1 ..... c 23 N72-11568 * #
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NASA-CASE-GSC-11149-1 ..... c 15 N73-30457 *
NASA-CASE-GSC-11163-1 ..... c 15 N73-32360 *
NASA-CASE-GSC-11169-2 ..... c 05 N73-32011 *
NASA-CASE-GSC-11182-1 ..... c 15 N75-13007 *
NASA-CASE-GSC-11186-1 ..... c 14 N73-32320 *
NASA-CASE-GSC-11186-2 ..... c 21 N73-19830 * #
NASA-CASE-GSC-11186-3 ..... c 74 N74-20006 *
NASA-CASE-GSC-11205-1 ..... c 15 N73-25513 *
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NASA-CASE-GSC-11214-1 ..... c 06 N73-13128 *
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NASA-CASE-GSC-11222-1 ..... c 16 N73-32391 *
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NASA-CASE-GSC-11302-1 ..... c 14 N73-13416 *
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NASA-CASE-GSC-11368-1 ..... c 09 N73-32108 *
NASA-CASE-GSC-11394-1 ..... c 09 N73-32109 *
NASA-CASE-GSC-11425-1 ..... c 76 N74-20329 *
NASA-CASE-GSC-11425-2 ..... c 76 N75-25730 *
NASA-CASE-GSC-11428-1 ..... c 32 N74-20664 *
NASA-CASE-GSC-11434-1 ..... c 34 N74-27859 *
NASA-CASE-GSC-11444-1 ..... c 14 N73-28490 *
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NASA-CASE-GSC-11533-1 ..... c 14 N73-13435 * #
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NASA-CASE-GSC-12075-1 ..... c 32 N77-31350 *
NASA-CASE-GSC-12077-1 ..... c 35 N77-24455 *
NASA-CASE-GSC-12081-2 ..... c 52 N82-22875 *
NASA-CASE-GSC-12082-1 ..... c 54 N76-22914 *
NASA-CASE-GSC-12082-2 ..... c 52 N81-25661 *
NASA-CASE-GSC-12083-1 ..... c 73 N78-32848 *
NASA-CASE-GSC-12086-1 ..... c 74 N78-13874 *
NASA-CASE-GSC-12110-1 ..... c 27 N77-32308 *
NASA-CASE-GSC-12111-2 ..... c 33 N81-29342 *
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NASA-CASE-GSC-12150-1 ..... c 32 N79-11265 *
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NASA-CASE-GSC-12171-1 ..... c 33 N79-28416 *
NASA-CASE-GSC-12173-1 ..... c 51 N79-10694 *
NASA-CASE-GSC-12190-1 ..... c 33 N79-12321 *
NASA-CASE-GSC-12191-1 ..... c 31 N80-32583 *
NASA-CASE-GSC-12194-2 ..... c 20 N82-18314 *
NASA-CASE-GSC-12207-1 ..... c 24 N79-14156 *
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NASA-CASE-GSC-12223-1 ..... c 60 N83-25378 *
NASA-CASE-GSC-12225-1 ..... c 74 N79-14891 *
NASA-CASE-GSC-12228-1 ..... c 33 N79-10338 *
NASA-CASE-GSC-12237-1 ..... c 36 N80-14384 *
NASA-CASE-GSC-12253-1 ..... c 34 N79-31523 *
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NASA-CASE-GSC-12274-1 ..... c 37 N79-28550 *
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NASA-CASE-GSC-12411-1 ..... c 33 N81-14221 *
NASA-CASE-GSC-12415-1 ..... c 33 N82-24419 *
NASA-CASE-GSC-12420-1 ..... c 33 N82-16340 *
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NASA-CASE-GSC-12442-2 ..... c 33 N90-20282 *
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NASA-CASE-GSC-12565-1 ..... c 36 N84-14509 *
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NASA-CASE-GSC-12650-1 ..... c 33 N84-14421 *
NASA-CASE-GSC-12652-1 ..... c 52 N84-34913 *
NASA-CASE-GSC-12682-1 ..... c 35 N84-33765 *
NASA-CASE-GSC-12683-1 ..... c 74 N83-36898 *
NASA-CASE-GSC-12686-1 ..... c 27 N83-34039 *
NASA-CASE-GSC-12697-1 ..... c 44 N83-28574 *
NASA-CASE-GSC-12726-1 ..... c 37 N83-34323 *
NASA-CASE-GSC-12756-1 ..... c 74 N84-23248 *
NASA-CASE-GSC-12761-1 ..... c 74 N86-32268 *
NASA-CASE-GSC-12762-1 ..... c 37 N84-26083 *
NASA-CASE-GSC-12770-1 ..... c 25 N83-29324 *
NASA-CASE-GSC-12771-1 ..... c 34 N84-14461 *
NASA-CASE-GSC-12773-2 ..... c 33 N87-23804 *
NASA-CASE-GSC-12782-1 ..... c 33 N88-14271 *

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NASA-CASE-GSC-12789-1 ..... c 35 N85-20294 *
NASA-CASE-GSC-12795-1 ..... c 35 N86-19580 *
NASA-CASE-GSC-12799-1 ..... c 31 N85-21404 *
NASA-CASE-GSC-12804-1 ..... c 33 N86-20868 *
NASA-CASE-GSC-12808-1 ..... c 25 N85-21278 *
NASA-CASE-GSC-12812-1 ..... c 34 N83-35307 *
NASA-CASE-GSC-12816-1 ..... c 78 N86-20150 *
NASA-CASE-GSC-12817-1 ..... c 33 N85-29146 *
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NASA-CASE-GSC-12849-1 ..... c 74 N86-26190 *
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NASA-CASE-GSC-12860-1 ..... c 26 N86-32550 *
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NASA-CASE-GSC-12944-1 ..... c 52 N86-19685 * #
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NASA-CASE-GSC-12958-1 ..... c 33 N86-32624 *
NASA-CASE-GSC-12961-1 ..... c 33 N87-22695 *
NASA-CASE-GSC-12970-1 ..... c 08 N88-23808 *
NASA-CASE-GSC-13006-1 ..... c 27 N88-23694 *
NASA-CASE-GSC-13006-2 ..... c 27 N90-16949 *
NASA-CASE-GSC-13018-1 ..... c 33 N87-21232 *
NASA-CASE-GSC-13019-1 ..... c 34 N88-29133 *
NASA-CASE-GSC-13112-1 ..... c 31 N89-29578 *
NASA-CASE-GSC-13173-1 ..... c 33 N90-23635 *
NASA-CASE-GSC-13199-1 ..... c 27 N90-23541 *

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NASA-CASE-HQN-00936 ..... c 31 N71-29050 *
NASA-CASE-HQN-00937 ..... c 07 N71-26979 *
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NASA-CASE-HQN-10326-2 ..... c 27 N82-29454 *
NASA-CASE-HQN-10364 ..... c 06 N71-27363 *
NASA-CASE-HQN-10439 ..... c 21 N72-21624 *
NASA-CASE-HQN-10482 ..... c 25 N75-29192 *
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NASA-CASE-HQN-10595-1 ..... c 27 N82-29455 *
NASA-CASE-HQN-10636-1 ..... c 15 N73-30460 *
NASA-CASE-HQN-10654-1 ..... c 16 N73-13469 *
NASA-CASE-HQN-10683 ..... c 14 N71-34389 * #
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NASA-CASE-HQN-10760 ..... c 14 N71-30265 *
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NASA-CASE-HQN-10792-1 ..... c 33 N74-11049 *
NASA-CASE-HQN-10832-1 ..... c 71 N74-21014 *
NASA-CASE-HQN-10841-1 ..... c 73 N78-19920 *
NASA-CASE-HQN-10844-1 ..... c 36 N75-19653 *
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NASA-CASE-HQN-10876-1 ..... c 33 N76-27473 *
NASA-CASE-HQN-10880-1 ..... c 17 N78-17140 *
NASA-CASE-HQN-10888-1 ..... c 44 N79-14527 *
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NASA-CASE-KSC-10031 ..... c 15 N72-22486 *
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NASA-CASE-KSC-10162 ..... c 09 N72-11225 *
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NASA-CASE-KSC-10294 ..... c 14 N72-18411 *
NASA-CASE-KSC-10326 ..... c 09 N72-21197 *
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NASA-CASE-KSC-10647-1 ..... c 10 N72-31273 *

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NASA-CASE-KSC-10696 ..... c 07 N73-20175 *
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NASA-CASE-KSC-11387-1 ..... c 29 N90-20236 *
NASA-CASE-KSC-11392-1 ..... c 74 N90-22383 *

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NASA-CASE-LAR-13316-1 ..... c 27 N86-27450 *
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NASA-CASE-LAR-13318-1 ..... c 27 N87-14516 *
NASA-CASE-LAR-13351-1 ..... c 27 N86-31727 *
NASA-CASE-LAR-13353-1 ..... c 27 N86-29039 *
NASA-CASE-LAR-13384-1 ..... c 27 N86-20561 *
NASA-CASE-LAR-13387-1 ..... c 74 N88-25302 * #
NASA-CASE-LAR-13392-1-CU ..... c 19 N90-10132 * #
NASA-CASE-LAR-13393-1 ..... c 54 N87-29118 *
NASA-CASE-LAR-13407-1 ..... c 33 N87-28831 *
NASA-CASE-LAR-13411-1-SB ..... c 18 N88-23826 *
NASA-CASE-LAR-13434-1 ..... c 37 N90-23742 *
NASA-CASE-LAR-13435-1 ..... c 37 N88-23981 *
NASA-CASE-LAR-13436-1-CU ..... c 02 N88-23759 *
NASA-CASE-LAR-13438-1 ..... c 31 N89-12786 *
NASA-CASE-LAR-13440-1 ..... c 71 N87-21653 *
NASA-CASE-LAR-13444-1-CU ..... c 27 N87-22847 *
NASA-CASE-LAR-13444-2-CU ..... c 23 N89-12667 *
NASA-CASE-LAR-13447-1 ..... c 27 N88-18725 *
NASA-CASE-LAR-13448-1 ..... c 27 N90-21198 *
NASA-CASE-LAR-13450-1 ..... c 27 N87-28657 *
NASA-CASE-LAR-13452-1 ..... c 27 N87-22848 *
NASA-CASE-LAR-13453-1 ..... c 37 N88-14361 *
NASA-CASE-LAR-13455-1 ..... c 32 N87-21206 *
NASA-CASE-LAR-13458-1 ..... c 35 N88-23987 *
NASA-CASE-LAR-13465-1 ..... c 27 N90-23544 *
NASA-CASE-LAR-13470-1 ..... c 03 N88-14083 *
NASA-CASE-LAR-13474-1-SB ..... c 26 N87-25455 *
NASA-CASE-LAR-13476-1-CU ..... c 76 N87-29360 *
NASA-CASE-LAR-13486-1 ..... c 16 N90-22564 *
NASA-CASE-LAR-13489-1 ..... c 18 N87-27713 *
NASA-CASE-LAR-13490-1 ..... c 18 N87-14413 * #
NASA-CASE-LAR-13506-1 ..... c 27 N89-12741 *
NASA-CASE-LAR-13508-1 ..... c 35 N88-23982 * #
NASA-CASE-LAR-13511-1 ..... c 05 N86-23765 *
NASA-CASE-LAR-13512-1 ..... c 35 N87-28884 *
NASA-CASE-LAR-13519-1 ..... c 35 N88-23963 * #
NASA-CASE-LAR-13522-1-SB ..... c 09 N87-25334 *
NASA-CASE-LAR-13526-1 ..... c 25 N88-29002 *
NASA-CASE-LAR-13532-1 ..... c 34 N86-26575 * #
NASA-CASE-LAR-13542-2-SB ..... c 25 N90-20154 *
NASA-CASE-LAR-13552-1-CU ..... c 33 N89-14385 *
NASA-CASE-LAR-13554-1 ..... c 02 N89-12551 *
NASA-CASE-LAR-13555-1 ..... c 23 N86-32526 * #
NASA-CASE-LAR-13562-1 ..... c 24 N87-18613 * #
NASA-CASE-LAR-13562-1 ..... c 24 N90-25196 *
NASA-CASE-LAR-13564-1 ..... c 35 N87-25558 * #
NASA-CASE-LAR-13569-1 ..... c 35 N89-12841 *
NASA-CASE-LAR-13580-1 ..... c 37 N90-16272 * #
NASA-CASE-LAR-13597-1-CU ..... c 25 N87-23713 * #
NASA-CASE-LAR-13601-1-CU ..... c 27 N89-14337 *
NASA-CASE-LAR-13607-1-CU ..... c 29 N88-29048 * #
NASA-CASE-LAR-13628-1 ..... c 35 N90-23707 *
NASA-CASE-LAR-13630-1 ..... c 08 N86-23809 *
NASA-CASE-LAR-13632-1 ..... c 26 N87-29650 * #
NASA-CASE-LAR-13633-1 ..... c 27 N87-24575 * #
NASA-CASE-LAR-13638-1 ..... c 31 N90-19427 *
NASA-CASE-LAR-13662-1 ..... c 37 N88-14359 *
NASA-CASE-LAR-13678-1 ..... c 76 N90-24168 *
NASA-CASE-LAR-13680-1 ..... c 35 N87-25561 * #
NASA-CASE-LAR-13689-1-NP ..... c 35 N87-23941 * #
NASA-CASE-LAR-13696-1 ..... c 37 N90-20409 *
NASA-CASE-LAR-13705-1 ..... c 39 N88-25011 * #
NASA-CASE-LAR-13710-1 ..... c 35 N90-17117 *
NASA-CASE-LAR-13719-1 ..... c 37 N89-12867 * #
NASA-CASE-LAR-13724-1 ..... c 38 N90-23756 *
NASA-CASE-LAR-13732-1 ..... c 27 N87-25474 * #
NASA-CASE-LAR-13734-1-CU ..... c 09 N90-20096 *
NASA-CASE-LAR-13738-1 ..... c 18 N87-29586 * #
NASA-CASE-LAR-13740-1 ..... c 35 N90-22770 *
NASA-CASE-LAR-13741-1-SB ..... c 25 N90-20180 *
NASA-CASE-LAR-13747-1-CU ..... c 32 N89-28672 *
NASA-CASE-LAR-13761-1 ..... c 34 N90-20323 *
NASA-CASE-LAR-13771-1 ..... c 36 N89-14426 * #
NASA-CASE-LAR-13772-1 ..... c 36 N89-28616 * #
NASA-CASE-LAR-13773-1 ..... c 20 N90-19298 *
NASA-CASE-LAR-13775-1 ..... c 35 N90-23706 *
NASA-CASE-LAR-13776-1 ..... c 35 N88-29149 *
NASA-CASE-LAR-13777-1 ..... c 05 N90-20078 *
NASA-CASE-LAR-13785-1 ..... c 70 N90-17403 * #
NASA-CASE-LAR-13797-1 ..... c 35 N88-30108 *
NASA-CASE-LAR-13798-1 ..... c 32 N89-25363 *
NASA-CASE-LAR-13816-1 ..... c 35 N90-22025 *
NASA-CASE-LAR-13817-1 ..... c 26 N90-21170 *
NASA-CASE-LAR-13821-1 ..... c 27 N90-16950 *
NASA-CASE-LAR-13826-1 ..... c 35 N88-29150 *
NASA-CASE-LAR-13853-1 ..... c 35 N89-14423 *
NASA-CASE-LAR-13854-1-CU ..... c 04 N88-24621 * #
NASA-CASE-LAR-13870-1 ..... c 05 N90-15094 * #
NASA-CASE-LAR-13875-1 ..... c 05 N89-14233 * #
NASA-CASE-LAR-13889-1 ..... c 39 N88-30180 * #
NASA-CASE-LAR-13898-1 ..... c 37 N88-30130 * #
NASA-CASE-LAR-13901-1-NP ..... c 52 N90-21519 *
NASA-CASE-LAR-13902-1 ..... c 27 N90-23546 *
NASA-CASE-LAR-13924-1-CU ..... c 26 N89-28621 *
NASA-CASE-LAR-13925-1 ..... c 27 N89-25334 * #
NASA-CASE-LAR-13926-1 ..... c 37 N90-22042 *
NASA-CASE-LAR-13952-1-SB ..... c 34 N90-19534 *
NASA-CASE-LAR-13963-1 ..... c 76 N90-24150 *
NASA-CASE-LAR-13965-1-CU ..... c 23 N90-21118 *
NASA-CASE-LAR-13966-1 ..... c 71 N90-17408 * #
NASA-CASE-LAR-13968-1 ..... c 71 N90-15710 * #
NASA-CASE-LAR-13981-1 ..... c 37 N90-15442 * #
NASA-CASE-LAR-13983-1 ..... c 05 N90-23390 *
NASA-CASE-LAR-13985-1 ..... c 24 N89-28586 * #
NASA-CASE-LAR-13988-1 ..... c 23 N89-11814 * #
NASA-CASE-LAR-13992-1-CU ..... c 23 N89-13496 * #
NASA-CASE-LAR-13996-1-SB ..... c 25 N90-15161 * #
NASA-CASE-LAR-14001-1 ..... c 27 N90-15260 * #
NASA-CASE-LAR-14009-1 ..... c 37 N90-27115 * #
NASA-CASE-LAR-14031-1 ..... c 05 N90-20079 *
NASA-CASE-LAR-14033-1 ..... c 34 N90-27072 * #
NASA-CASE-LAR-14049-1 ..... c 07 N89-23466 * #
NASA-CASE-LAR-14050-1 ..... c 31 N90-21216 *
NASA-CASE-LAR-14056-1 ..... c 35 N90-23713 *
NASA-CASE-LAR-14062-1 ..... c 37 N90-27114 * #
NASA-CASE-LAR-14078-1-CU ..... c 34 N90-27071 * #
NASA-CASE-LAR-14101-1 ..... c 27 N89-23692 * #
NASA-CASE-LAR-14142-1 ..... c 37 N90-27116 * #
NASA-CASE-LAR-14145-1 ..... c 27 N90-26954 * #
NASA-CASE-LAR-14149-1-SB ..... c 14 N89-28547 * #
NASA-CASE-LAR-14155-1-SB ..... c 25 N90-23517 *
NASA-CASE-LAR-14156-1 ..... c 16 N90-16781 * #
NASA-CASE-LAR-14159-1-CU ..... c 27 N90-26953 * #
NASA-CASE-LAR-14162-1 ..... c 27 N90-15259 * #
NASA-CASE-LAR-14188-1 ..... c 27 N90-23545 *
NASA-CASE-LAR-14194-1 ..... c 24 N90-15148 * #
NASA-CASE-LAR-14198-1 ..... c 27 N90-26956 * #
NASA-CASE-LAR-14203-1 ..... c 36 N89-28617 * #
NASA-CASE-LAR-14250-1-SB ..... c 72 N90-27472 * #
NASA-CASE-LAR-14338-1 ..... c 24 N90-26681 * #
NASA-CASE-LAR-14339-1 ..... c 27 N90-26955 * #
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NASA-CASE-LEW-10155-1 ..... c 09 N71-29035 *
NASA-CASE-LEW-10199-1 ..... c 27 N74-23125 *
NASA-CASE-LEW-10210-1 ..... c 28 N71-26781 *
NASA-CASE-LEW-10219-1 ..... c 18 N71-28729 *
NASA-CASE-LEW-10233 ..... c 10 N71-27126 *
NASA-CASE-LEW-10250-1 ..... c 22 N71-26759 *
NASA-CASE-LEW-10278-1 ..... c 15 N71-28582 *
NASA-CASE-LEW-10281-1 ..... c 14 N72-17327 *
NASA-CASE-LEW-10296-1 ..... c 28 N71-28915 *
NASA-CASE-LEW-10326-3 ..... c 37 N74-10474 *
NASA-CASE-LEW-10327 ..... c 17 N71-33408 *
NASA-CASE-LEW-10330-1 ..... c 09 N72-27226 *
NASA-CASE-LEW-10345-1 ..... c 10 N71-25899 *
NASA-CASE-LEW-10359-2 ..... c 33 N73-25952 *
NASA-CASE-LEW-10359 ..... c 33 N72-25911 *
NASA-CASE-LEW-10364-1 ..... c 09 N71-13522 *
NASA-CASE-LEW-10374-1 ..... c 28 N73-13773 *
NASA-CASE-LEW-10387 ..... c 09 N72-22201 *
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NASA-CASE-LEW-10424-2-2 ..... c 18 N72-25539 *
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NASA-CASE-LEW-10436-1 ..... c 17 N73-32415 *
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NASA-CASE-LEW-10794-1 ..... c 06 N72-17093 *
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NASA-CASE-LEW-10805-3 ..... c 26 N74-10521 *
NASA-CASE-LEW-10814-1 ..... c 28 N70-35422 * #
NASA-CASE-LEW-10835-1 ..... c 28 N72-22771 *
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NASA-CASE-LEW-10906-1 ..... c 25 N74-30502 *
NASA-CASE-LEW-10920-1 ..... c 17 N73-24569 *
NASA-CASE-LEW-10950-1 ..... c 33 N74-27683 *
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NASA-CASE-LEW-11069-1 ..... c 44 N74-14784 *
NASA-CASE-LEW-11072-1 ..... c 14 N73-24472 *
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NASA-CASE-LEW-11076-4 ..... c 37 N76-15481 *
NASA-CASE-LEW-11087-1 ..... c 15 N73-30458 *
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NASA-CASE-LEW-11118-2 ..... c 20 N76-14191 *
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NASA-CASE-LEW-11402-1 ..... c 07 N74-28226 *
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NASA-CASE-LEW-12159-1 ..... c 44 N78-19599 *
NASA-CASE-LEW-12164-1 ..... c 36 N77-32478 *
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NASA-CASE-LEW-12217-1 ..... c 43 N78-14452 *
NASA-CASE-LEW-12220-1 ..... c 44 N77-14581 *
NASA-CASE-LEW-12232-1 ..... c 07 N79-10057 *
NASA-CASE-LEW-12236-2 ..... c 44 N79-14528 *

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NASA-CASE-LEW-12253-1 ..... c 74 N83-19596 *
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NASA-CASE-LEW-12658-1 ..... c 71 N79-14871 *
NASA-CASE-LEW-12661-1 ..... c 35 N79-14345 *
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NASA-CASE-LEW-12718-1 ..... c 34 N78-25351 *
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NASA-CASE-LEW-12775-1 ..... c 44 N79-11468 *
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NASA-CASE-LEW-13770-5 ..... c 27 N85-21352 *
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NASA-CASE-MFS-25242-1 ..... c 35 N83-29650 *
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NASA-CASE-MFS-25302-1 ..... c 33 N83-26319 *
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NASA-CASE-MFS-26008-1-CU ... c 76 N88-14835 *
NASA-CASE-MFS-26009-1-SB ... c 54 N88-24183 *
NASA-CASE-MFS-26011-1-SB ... c 52 N87-24874 *
NASA-CASE-MFS-26047-1 ..... c 29 N90-21209 *
NASA-CASE-MFS-26049-1-NP ... c 25 N89-26603 * #
NASA-CASE-MFS-26063-1-CU ... c 28 N90-26940 * #
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NASA-CASE-MSC-21560-1 ..... c 51 N90-16852 * #
NASA-CASE-MSC-21629-1 ..... c 54 N89-29027 * #
NASA-CASE-MSC-25707-1 ..... c 35 N85-29214 *
NASA-CASE-MSC-90153-2 ..... c 05 N72-25120 *
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NASA-CASE-NPO-10034 ..... c 15 N71-17685 *
NASA-CASE-NPO-10037 ..... c 09 N71-19810 *
NASA-CASE-NPO-10046 ..... c 28 N72-17843 *
NASA-CASE-NPO-10051 ..... c 18 N71-24934 *
NASA-CASE-NPO-10064 ..... c 15 N71-17693 *
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NASA-CASE-NPO-10194 ..... c 03 N71-20407 *
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NASA-CASE-NPO-10230 ..... c 09 N71-12520 *
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NASA-CASE-NPO-10300 ..... c 14 N71-17662 *
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NASA-CASE-NPO-10373 ..... c 03 N71-18698 *
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NASA-CASE-NPO-10417 ..... c 16 N71-33410 *
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NASA-CASE-NPO-10636 ..... c 08 N72-25210 *
NASA-CASE-NPO-10637 ..... c 15 N72-12409 *
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NASA-CASE-NPO-10679 ..... c 15 N72-21462 *
NASA-CASE-NPO-10680 ..... c 31 N73-14855 *
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NASA-CASE-NPO-10704 ..... c 15 N72-20445 *
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NASA-CASE-NPO-10765 ..... c 06 N72-20121 *
NASA-CASE-NPO-10767-1 ..... c 06 N73-33076 *
NASA-CASE-NPO-10767-2 ..... c 06 N72-27151 * #
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NASA-CASE-NPO-10768 ..... c 06 N71-27254 *
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NASA-CASE-NPO-10774 ..... c 06 N72-17095 *
NASA-CASE-NPO-10778 ..... c 14 N72-11384 *
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NASA-CASE-NPO-10863-2 ..... c 06 N72-25152 *
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NASA-CASE-NPO-13253-1 ..... c 37 N75-18573 *
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NASA-CASE-NPO-13327-1 ..... c 36 N75-23910 *
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NASA-CASE-NPO-13386-1 ..... c 54 N75-27758 *
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NASA-CASE-NPO-13426-1 ..... c 33 N75-31330 *
NASA-CASE-NPO-13428-1 ..... c 60 N77-12721 *
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NASA-CASE-NPO-15345-1 ..... c 74 N84-23247 *
NASA-CASE-NPO-15351-1 ..... c 06 N83-10040 *
NASA-CASE-NPO-15351-2 ..... c 06 N84-34443 *
NASA-CASE-NPO-15358-1 ..... c 33 N83-27126 *
NASA-CASE-NPO-15375-1 ..... c 74 N84-11921 *
NASA-CASE-NPO-15388-1 ..... c 44 N84-28203 *
NASA-CASE-NPO-15398-1 ..... c 35 N84-22931 *
NASA-CASE-NPO-15400-1 ..... c 34 N83-31993 *
NASA-CASE-NPO-15401-1 ..... c 32 N83-27085 *
NASA-CASE-NPO-15419-2 ..... c 44 N85-30474 *
NASA-CASE-NPO-15423-1 ..... c 35 N84-28016 *
NASA-CASE-NPO-15426-1 ..... c 35 N84-17555 *
NASA-CASE-NPO-15430-1 ..... c 46 N85-21846 *
NASA-CASE-NPO-15432-1 ..... c 32 N85-29117 *
NASA-CASE-NPO-15433-1 ..... c 32 N85-21428 *
NASA-CASE-NPO-15435-1 ..... c 71 N83-36846 *
NASA-CASE-NPO-15453-1 ..... c 71 N83-32515 *
NASA-CASE-NPO-15458-1 ..... c 25 N84-12262 *
NASA-CASE-NPO-15464-1 ..... c 74 N85-29749 *
NASA-CASE-NPO-15465-1 ..... c 34 N84-22903 *
NASA-CASE-NPO-15466-1 ..... c 71 N85-22104 *
NASA-CASE-NPO-15482-1 ..... c 37 N87-23970 *
NASA-CASE-NPO-15483-1 ..... c 37 N85-21650 *
NASA-CASE-NPO-15494-1 ..... c 35 N82-25484 * #
NASA-CASE-NPO-15496-1 ..... c 44 N84-23018 *
NASA-CASE-NPO-15516-1 ..... c 36 N84-22943 *
NASA-CASE-NPO-15519-1 ..... c 32 N84-34651 *
NASA-CASE-NPO-15522-1 ..... c 71 N83-32516 *
NASA-CASE-NPO-15530-1 ..... c 76 N83-35888 *
NASA-CASE-NPO-15539-1 ..... c 37 N82-11469 * #
NASA-CASE-NPO-15547-1 ..... c 72 N84-16959 * #
NASA-CASE-NPO-15553-1 ..... c 33 N85-29142 *
NASA-CASE-NPO-15558-1 ..... c 35 N84-34705 *
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NASA-CASE-NPO-15560-1 ..... c 33 N85-21491 *
NASA-CASE-NPO-15562-1 ..... c 71 N82-27086 * #
NASA-CASE-NPO-15592-1 ..... c 71 N84-16940 *
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NASA-CASE-NPO-15625-1 ..... c 76 N83-20789 *
NASA-CASE-NPO-15629-1 ..... c 76 N84-35113 *
NASA-CASE-NPO-15640-1 ..... c 27 N84-22748 *
NASA-CASE-NPO-15644-1 ..... c 35 N84-33767 *
NASA-CASE-NPO-15651-1 ..... c 43 N85-21723 *
NASA-CASE-NPO-15656-1 ..... c 43 N84-23012 * #
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NASA-CASE-NPO-15662-1 ..... c 44 N84-28204 *
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NASA-CASE-NPO-15753-1 ..... c 27 N84-33589 *
NASA-CASE-NPO-15759-1 ..... c 35 N85-21596 *
NASA-CASE-NPO-15767-1 ..... c 23 N84-16255 *
NASA-CASE-NPO-15772-1 ..... c 76 N85-29800 *
NASA-CASE-NPO-15786-1 ..... c 76 N84-35112 * #
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NASA-CASE-NPO-15811-1 ..... c 76 N84-12968 * #
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NASA-CASE-NPO-15851-1 ..... c 37 N85-21652 *
NASA-CASE-NPO-15865-1 ..... c 74 N85-34629 *
NASA-CASE-NPO-15890-1-CU ..... c 33 N85-29143 *
NASA-CASE-NPO-15904-1 ..... c 76 N86-28760 *
NASA-CASE-NPO-15920-1 ..... c 33 N85-21493 *
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NASA-CASE-NPO-16000-1 ..... c 36 N85-29264 *
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NASA-CASE-NPO-16022-1 ..... c 71 N85-22105 *
NASA-CASE-NPO-16027-1 ..... c 35 N85-21597 *
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NASA-CASE-NPO-16045-1 ..... c 76 N87-13313 *
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NASA-CASE-NPO-16103-1 ..... c 27 N85-29043 *
NASA-CASE-NPO-16112-1 ..... c 33 N86-19516 *
NASA-CASE-NPO-16116-2 ..... c 60 N88-29310 *
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NASA-CASE-NPO-16155-1 ..... c 44 N85-30475 *
NASA-CASE-NPO-16171-1CU ..... c 04 N86-27270 *
NASA-CASE-NPO-16203-1 ..... c 23 N85-35227 *
NASA-CASE-NPO-16233-1 ..... c 37 N86-20801 * #
NASA-CASE-NPO-16236-1 ..... c 44 N86-27706 *
NASA-CASE-NPO-16256-1 ..... c 32 N87-21207 *
NASA-CASE-NPO-16257-1 ..... c 31 N85-29082 *
NASA-CASE-NPO-16271-1 ..... c 35 N86-25753 *
NASA-CASE-NPO-16299-1 ..... c 33 N87-14594 *
NASA-CASE-NPO-16306-1-CU ..... c 76 N85-30934 * #
NASA-CASE-NPO-16321-1CU ..... c 37 N87-17034 *
NASA-CASE-NPO-16337-1-CU ..... c 33 N87-22894 *
NASA-CASE-NPO-16372-1 ..... c 72 N86-33127 *
NASA-CASE-NPO-16392-1 ..... c 25 N86-25428 *
NASA-CASE-NPO-16393-1-CU ..... c 31 N87-21159 *
NASA-CASE-NPO-16402-2 ..... c 33 N88-24632 *
NASA-CASE-NPO-16414-1-CU ..... c 32 N87-25511 *
NASA-CASE-NPO-16420-1 ..... c 33 N86-20681 * #
NASA-CASE-NPO-16423-1-CU ..... c 37 N87-21334 *
NASA-CASE-NPO-16433-1 ..... c 36 N87-23961 *
NASA-CASE-NPO-16461-1CU ..... c 60 N89-26400 *
NASA-CASE-NPO-16462-1-CU ..... c 60 N88-24169 *
NASA-CASE-NPO-16464-1CU ..... c 60 N86-24224 * #
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NASA-CASE-NPO-16526-1CU ..... c 44 N87-17399 *
NASA-CASE-NPO-16542-1-CU ..... c 36 N87-23960 *
NASA-CASE-NPO-16544-1-CU ..... c 35 N87-22953 *
NASA-CASE-NPO-16558-1-CU ..... c 74 N87-23259 *
NASA-CASE-NPO-16567-1-CU ..... c 36 N87-28006 *
NASA-CASE-NPO-16584-1-CU ..... c 76 N86-25269 * #
NASA-CASE-NPO-16607-1-CU ..... c 76 N88-14836 *
NASA-CASE-NPO-16617-2-CU ..... c 35 N90-17118 *
NASA-CASE-NPO-16632-1-CU ..... c 32 N87-15390 * #
NASA-CASE-NPO-16640-1-CU ..... c 72 N87-21661 *
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NASA-CASE-NPO-16734-1-CU ..... c 31 N88-14223 *
NASA-CASE-NPO-16750-1-CU ..... c 74 N89-14078 *
NASA-CASE-NPO-16764-1-CU ..... c 33 N88-14270 *
NASA-CASE-NPO-16766-1-CU ..... c 37 N89-13785 *
NASA-CASE-NPO-16784-1 ..... c 33 N87-10231 * #
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NASA-CASE-NPO-16869-1CU ..... c 74 N86-33138 * #
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NASA-CASE-NPO-16907-1-CU ..... c 25 N88-24732 *
NASA-CASE-NPO-16932-1CU ..... c 33 N87-15413 * #
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NASA-CASE-NPO-16985-1-CU ..... c 31 N88-24814 * #
NASA-CASE-NPO-16987-1-CU ..... c 32 N88-30001 * #
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NASA-CASE-NPO-17022-1-CU ..... c 29 N87-25489 * #
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NASA-CASE-NPO-17108-1-CU ..... c 33 N89-28713 *
NASA-CASE-NPO-17134-1-CU ..... c 33 N88-24864 * #
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NASA-CASE-NPO-17207-1-CU ..... c 74 N88-25304 * #
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NASA-CASE-NPO-17235-1-CU ..... c 35 N90-21358 *
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NASA-CASE-NPO-17275-1-CU ..... c 37 N89-29750 * #
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NASA-CASE-NPO-17282-1-CU ..... c 36 N89-12856 * #
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NASA-CASE-NPO-17334-1-CU ..... c 31 N88-23917 * #
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NASA-CASE-NPO-17399-1-CU ..... c 76 N89-14120 * #
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NASA-CASE-NPO-17436-1-CU ..... c 35 N89-13764 * #
NASA-CASE-NPO-17439-1-CU ..... c 52 N90-16391 * #
NASA-CASE-NPO-17453-1-CU ..... c 37 N89-13787 * #
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NASA-CASE-NPO-17524-1-CU ..... c 27 N90-10261 * #
NASA-CASE-NPO-17525-1-CU ..... c 60 N90-25583 *
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NASA-CASE-NPO-17548-1-CU ..... c 32 N90-16104 * #
NASA-CASE-NPO-17562-1-CU ..... c 74 N89-24153 * #
NASA-CASE-NPO-17564-1-CU ..... c 32 N90-16974 * #
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NASA-CASE-NPO-17604-1-CU ..... c 33 N90-16124 * #
NASA-CASE-NPO-17612-1-CU ..... c 74 N90-27487 * #
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NASA-CASE-NPO-17625-1-CU ..... c 34 N90-27070 * #
NASA-CASE-NPO-17628-1-CU ..... c 32 N89-28684 * #
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NASA-CASE-NPO-17633-1-CU ..... c 27 N90-15263 * #
NASA-CASE-NPO-17640-1-CU ..... c 33 N90-17011 * #
NASA-CASE-NPO-17653-1-CU ..... c 51 N90-27239 * #
NASA-CASE-NPO-17664-1-CU ..... c 62 N90-27384 * #
NASA-CASE-NPO-17703-1-CU ..... c 74 N89-29191 * #
NASA-CASE-NPO-17716-1-CU ..... c 62 N90-10608 * #
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NASA-CASE-NPO-17736-1-CU ..... c 76 N90-17455 * #
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NASA-CASE-NPO-17812-1-CU ..... c 76 N90-17456 * #
NASA-CASE-NPO-17820-1-CU ..... c 04 N90-18379 * #

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NASA-CASE-NPO-17826-1-CU .... c 27 N90-26952 * #
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NASA-CASE-NPO-17858-1-CU .... c 24 N90-26860 * #
NASA-CASE-NPO-17873-1-CU .... c 32 N90-27015 * #
NASA-CASE-NPO-17897-1-CU .... c 33 N90-27040 * #
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NASA-CASE-NPO-17913-1-CU .... c 74 N90-27488 * #
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NASA-CASE-NPO-17954-1-CU .... c 60 N90-26519 * #
NASA-CASE-NPO-17970-1-CU .... c 43 N90-26384 * #

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NASA-CASE-NSTL-10 ..... c 45 N84-12654 *

NASA-CASE-NUC-10107-1 ..... c 33 N74-17930 *

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NASA-CASE-WLP-10055-2 ..... c 35 N85-21598 *

NASA-CASE-WOO-00428-1 ..... c 32 N79-19186 *
NASA-CASE-WOO-00625 ..... c 37 N78-17385 *

NASA-CASE-XAC-00001 ..... c 15 N71-28952 *
NASA-CASE-XAC-00030 ..... c 14 N70-34820 *
NASA-CASE-XAC-00042 ..... c 14 N70-34816 *
NASA-CASE-XAC-00048 ..... c 02 N71-29128 *
NASA-CASE-XAC-00060 ..... c 09 N70-39915 *
NASA-CASE-XAC-00073 ..... c 14 N70-34813 *
NASA-CASE-XAC-00074 ..... c 15 N70-34817 *
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NASA-CASE-XAC-00139 ..... c 02 N70-34856 *
NASA-CASE-XAC-00319 ..... c 25 N70-41628 *
NASA-CASE-XAC-00399 ..... c 11 N70-34815 *
NASA-CASE-XAC-00404 ..... c 08 N70-40125 *
NASA-CASE-XAC-00405 ..... c 05 N70-41819 *
NASA-CASE-XAC-00435 ..... c 09 N70-35440 *
NASA-CASE-XAC-00472 ..... c 15 N70-40180 *
NASA-CASE-XAC-00648 ..... c 14 N70-40400 *
NASA-CASE-XAC-00731 ..... c 11 N71-15960 *
NASA-CASE-XAC-00812 ..... c 14 N71-15598 *
NASA-CASE-XAC-00942 ..... c 10 N71-16042 *
NASA-CASE-XAC-01101 ..... c 14 N70-41957 *
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NASA-CASE-XAC-01591 ..... c 31 N71-17729 *
NASA-CASE-XAC-01662 ..... c 14 N71-23037 *
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NASA-CASE-XAC-02405 ..... c 09 N71-16089 *
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NASA-CASE-XAC-04458 ..... c 14 N71-24232 *
NASA-CASE-XAC-04885 ..... c 14 N71-23790 *
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NASA-CASE-XAC-05422 ..... c 04 N71-23195 *
NASA-CASE-XAC-05462-2 ..... c 10 N72-17121 *
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NASA-CASE-XAC-05632 ..... c 32 N71-23971 *
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NASA-CASE-XAC-06302 ..... c 08 N71-19763 *
NASA-CASE-XAC-06956 ..... c 15 N71-21177 *
NASA-CASE-XAC-07043 ..... c 05 N71-23161 *
NASA-CASE-XAC-08494 ..... c 30 N71-15990 *
NASA-CASE-XAC-08972 ..... c 02 N71-20570 *
NASA-CASE-XAC-08981 ..... c 09 N69-39697 * #
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NASA-CASE-XAC-10768 ..... c 09 N71-16830 *
NASA-CASE-XAC-10770-1 ..... c 16 N71-24828 *
NASA-CASE-XAC-11225 ..... c 14 N69-27486 * #

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NASA-CASE-XER-08476-1 ..... c 26 N72-17820 *
NASA-CASE-XER-09213 ..... c 07 N71-12390 *
NASA-CASE-XER-09519 ..... c 14 N71-18483 *
NASA-CASE-XER-09521 ..... c 09 N72-12136 *
NASA-CASE-XER-11019 ..... c 09 N71-23598 *
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NASA-CASE-XER-11203 ..... c 14 N71-28994 *

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NASA-CASE-XFR-03107 ..... c 09 N71-19449 *
NASA-CASE-XFR-03802 ..... c 33 N71-23085 *
NASA-CASE-XFR-04104 ..... c 03 N70-42073 *
NASA-CASE-XFR-04147 ..... c 11 N71-10748 *
NASA-CASE-XFR-05302 ..... c 15 N71-23254 *
NASA-CASE-XFR-05421 ..... c 15 N71-22994 *
NASA-CASE-XFR-05637 ..... c 09 N71-19480 *
NASA-CASE-XFR-07172 ..... c 05 N71-27234 *
NASA-CASE-XFR-07658-1 ..... c 05 N71-26293 *
NASA-CASE-XFR-08403 ..... c 05 N71-11202 *
NASA-CASE-XFR-09479 ..... c 14 N69-27503 * #
NASA-CASE-XFR-10856 ..... c 05 N71-11189 *

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NASA-CASE-XGS-00373 ..... c 23 N71-15978 *
NASA-CASE-XGS-00381 ..... c 09 N70-34819 *
NASA-CASE-XGS-00458 ..... c 09 N70-38604 *
NASA-CASE-XGS-00466 ..... c 21 N70-34297 *
NASA-CASE-XGS-00473 ..... c 03 N70-38713 *
NASA-CASE-XGS-00587 ..... c 15 N70-35087 *
NASA-CASE-XGS-00619 ..... c 30 N70-40016 *
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NASA-CASE-XGS-00769 ..... c 14 N70-41647 *
NASA-CASE-XGS-00783 ..... c 30 N71-17788 *
NASA-CASE-XGS-00809 ..... c 21 N70-35427 *
NASA-CASE-XGS-00823 ..... c 10 N71-15910 *
NASA-CASE-XGS-00824 ..... c 15 N71-16078 *
NASA-CASE-XGS-00829-1 ..... c 44 N79-19447 *
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NASA-CASE-XGS-00963 ..... c 15 N69-39735 * #
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NASA-CASE-XGS-01286-1 ..... c 37 N79-33469 *
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NASA-CASE-XGS-01674 ..... c 03 N71-29129 *
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NASA-CASE-XGS-01971 ..... c 15 N71-15922 *
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NASA-CASE-XGS-03505 ..... c 03 N71-10608 *
NASA-CASE-XGS-03532 ..... c 14 N71-17627 *
NASA-CASE-XGS-03556 ..... c 27 N70-35534 *
NASA-CASE-XGS-03632 ..... c 09 N71-23311 *
NASA-CASE-XGS-03644 ..... c 16 N71-18614 *
NASA-CASE-XGS-03736 ..... c 14 N72-22443 *
NASA-CASE-XGS-03864 ..... c 15 N69-24320 * #
NASA-CASE-XGS-03865 ..... c 14 N69-21363 * #
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NASA-CASE-XGS-04173 ..... c 19 N71-26674 *
NASA-CASE-XGS-04175 ..... c 15 N71-18579 *
NASA-CASE-XGS-04224 ..... c 10 N71-26418 *
NASA-CASE-XGS-04227 ..... c 15 N71-21744 *
NASA-CASE-XGS-04393 ..... c 21 N71-14159 *
NASA-CASE-XGS-04478 ..... c 14 N71-24233 *
NASA-CASE-XGS-04480 ..... c 16 N69-27491 * #
NASA-CASE-XGS-04531 ..... c 03 N69-24267 * #
NASA-CASE-XGS-04548 ..... c 15 N71-24045 *
NASA-CASE-XGS-04554 ..... c 15 N69-39786 * #
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NASA-CASE-XGS-04766 ..... c 08 N71-18602 *
NASA-CASE-XGS-04767 ..... c 08 N71-12494 *
NASA-CASE-XGS-04768 ..... c 08 N71-19437 *
NASA-CASE-XGS-04799 ..... c 18 N71-24183 *
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NASA-CASE-XGS-05003 ..... c 09 N69-24318 * #
NASA-CASE-XGS-05180 ..... c 18 N71-25881 *
NASA-CASE-XGS-05211 ..... c 07 N69-39980 * #
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NASA-CASE-XGS-05718 ..... c 26 N71-16037 *
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NASA-CASE-XGS-06306 ..... c 17 N71-16044 *
NASA-CASE-XGS-06626 ..... c 24 N71-16213 *
NASA-CASE-XGS-07375-1 ..... c 25 N82-29370 *
NASA-CASE-XGS-07397-1 ..... c 25 N82-29370 *
NASA-CASE-XGS-07514 ..... c 23 N71-16099 *
NASA-CASE-XGS-07752 ..... c 14 N73-30390 *
NASA-CASE-XGS-07801 ..... c 09 N71-12513 *
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NASA-CASE-XLA-03102 ..... c 14 N71-21079 *
NASA-CASE-XLA-03103 ..... c 25 N71-21693 *
NASA-CASE-XLA-03104 ..... c 06 N71-11235 *
NASA-CASE-XLA-03105 ..... c 15 N69-27483 * #
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NASA-CASE-XLA-03127 ..... c 11 N71-10776 *
NASA-CASE-XLA-03132 ..... c 31 N71-22969 *
NASA-CASE-XLA-03135 ..... c 32 N71-16428 *
NASA-CASE-XLA-03213 ..... c 05 N71-11207 *
NASA-CASE-XLA-03271 ..... c 11 N69-24321 * #
NASA-CASE-XLA-03273 ..... c 14 N71-18699 *
NASA-CASE-XLA-03356 ..... c 10 N71-23315 *
NASA-CASE-XLA-03374 ..... c 25 N71-15562 *
NASA-CASE-XLA-03375 ..... c 16 N71-24074 *
NASA-CASE-XLA-03410 ..... c 16 N71-25914 *
NASA-CASE-XLA-03492 ..... c 15 N71-22713 *
NASA-CASE-XLA-03497 ..... c 15 N71-23052 *
NASA-CASE-XLA-03538 ..... c 15 N71-24897 *
NASA-CASE-XLA-03645 ..... c 14 N71-20430 *
NASA-CASE-XLA-03659 ..... c 02 N71-11041 * #
NASA-CASE-XLA-03660 ..... c 15 N71-21060 *
NASA-CASE-XLA-03661 ..... c 15 N71-33518 *
NASA-CASE-XLA-03691 ..... c 31 N71-15674 *
NASA-CASE-XLA-03724 ..... c 14 N69-27461 * #
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NASA-CASE-XLA-04063 ..... c 31 N71-33160 *
NASA-CASE-XLA-04126 ..... c 26 N71-26779 *
NASA-CASE-XLA-04143 ..... c 15 N71-17687 *
NASA-CASE-XLA-04251 ..... c 18 N71-26100 *
NASA-CASE-XLA-04295 ..... c 16 N71-24170 *
NASA-CASE-XLA-04451 ..... c 02 N71-12243 *
NASA-CASE-XLA-04555-1 ..... c 14 N71-25892 *
NASA-CASE-XLA-04556 ..... c 14 N69-27484 * #
NASA-CASE-XLA-04605 ..... c 32 N71-16106 *
NASA-CASE-XLA-04622 ..... c 03 N70-41580 *
NASA-CASE-XLA-04804 ..... c 31 N71-23008 *
NASA-CASE-XLA-04897 ..... c 15 N72-22482 *
NASA-CASE-XLA-04901 ..... c 31 N71-24315 *
NASA-CASE-XLA-04980-2 ..... c 14 N72-28436 *
NASA-CASE-XLA-04980 ..... c 09 N69-27422 * #
NASA-CASE-XLA-05056 ..... c 15 N72-11389 *
NASA-CASE-XLA-05087 ..... c 14 N73-30391 *
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NASA-CASE-XLA-05332 ..... c 05 N71-11194 *
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NASA-CASE-XLA-05378 ..... c 11 N71-21475 *
NASA-CASE-XLA-05464 ..... c 21 N71-14132 *
NASA-CASE-XLA-05541 ..... c 12 N71-26387 *
NASA-CASE-XLA-05749 ..... c 15 N71-19569 *
NASA-CASE-XLA-05828 ..... c 01 N71-13411 *
NASA-CASE-XLA-05906 ..... c 31 N71-16221 *
NASA-CASE-XLA-05966 ..... c 15 N72-12408 *
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NASA-CASE-XLA-06232 ..... c 25 N71-20563 *
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NASA-CASE-XLA-06958 ..... c 02 N71-11038 *
NASA-CASE-XLA-07390 ..... c 15 N71-18616 *
NASA-CASE-XLA-07391 ..... c 12 N71-17579 *
NASA-CASE-XLA-07424 ..... c 14 N71-18482 *
NASA-CASE-XLA-07430 ..... c 11 N72-22246 *
NASA-CASE-XLA-07473 ..... c 15 N71-24895 *
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NASA-CASE-XLA-07728 ..... c 33 N71-22890 *
NASA-CASE-XLA-07732 ..... c 08 N71-18751 *
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NASA-CASE-XLA-07911 ..... c 15 N71-15571 *
NASA-CASE-XLA-08254 ..... c 14 N71-26161 *
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NASA-CASE-XLA-08493 ..... c 10 N71-19421 *
NASA-CASE-XLA-08507 ..... c 09 N69-39984 * #
NASA-CASE-XLA-08530 ..... c 32 N71-25380 *
NASA-CASE-XLA-08645 ..... c 15 N69-21465 * #
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NASA-CASE-XLA-08914 ..... c 15 N73-12492 * #
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NASA-CASE-XLA-08916 ..... c 15 N71-29018 *
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NASA-CASE-XLA-08967 ..... c 02 N71-27086 *
NASA-CASE-XLA-09122 ..... c 15 N69-27505 * #
NASA-CASE-XLA-09346 ..... c 15 N71-26740 *

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NASA-CASE-XLA-09843 ..... c 15 N72-27485 *
NASA-CASE-XLA-09881 ..... c 31 N71-16065 *
NASA-CASE-XLA-10322 ..... c 15 N72-17452 *
NASA-CASE-XLA-10402 ..... c 14 N71-29041 *
NASA-CASE-XLA-10450 ..... c 28 N71-21493 *
NASA-CASE-XLA-10470 ..... c 15 N72-21489 * #
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NASA-CASE-XLA-11154 ..... c 07 N72-21117 *
NASA-CASE-XLA-11189 ..... c 10 N72-20222 *

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NASA-CASE-XLE-00023 ..... c 15 N70-33330 *
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NASA-CASE-XLE-00035 ..... c 33 N71-29151 *
NASA-CASE-XLE-00037 ..... c 28 N70-33372 *
NASA-CASE-XLE-00046 ..... c 15 N70-33311 *
NASA-CASE-XLE-00057 ..... c 28 N70-38711 *
NASA-CASE-XLE-00078 ..... c 28 N70-33284 *
NASA-CASE-XLE-00085 ..... c 28 N70-39895 *
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NASA-CASE-XLE-00150 ..... c 28 N70-41818 *
NASA-CASE-XLE-00151 ..... c 17 N70-33283 *
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NASA-CASE-XLE-00164 ..... c 15 N70-36411 *
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NASA-CASE-XLE-00207 ..... c 28 N70-33375 *
NASA-CASE-XLE-00208 ..... c 28 N70-34294 *
NASA-CASE-XLE-00209 ..... c 22 N73-32528 *
NASA-CASE-XLE-00212 ..... c 03 N70-34134 *#
NASA-CASE-XLE-00222 ..... c 02 N70-37939 *
NASA-CASE-XLE-00228 ..... c 17 N70-38490 *
NASA-CASE-XLE-00231 ..... c 17 N70-38198 *
NASA-CASE-XLE-00243 ..... c 14 N70-38602 *
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NASA-CASE-XLE-00266 ..... c 14 N70-34156 *
NASA-CASE-XLE-00267 ..... c 28 N70-33356 *
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NASA-CASE-XLE-00288 ..... c 15 N70-34247 *
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NASA-CASE-XLE-00323 ..... c 28 N70-38505 *
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NASA-CASE-XLE-00397 ..... c 15 N70-36492 *
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NASA-CASE-XLE-00454 ..... c 23 N71-17802 *
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NASA-CASE-XLE-00660 ..... c 28 N70-39925 *
NASA-CASE-XLE-00685 ..... c 28 N70-41992 *
NASA-CASE-XLE-00688 ..... c 14 N70-41330 *
NASA-CASE-XLE-00690 ..... c 25 N69-39884 * #
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NASA-CASE-XLE-00703 ..... c 15 N71-15967 *
NASA-CASE-XLE-00715 ..... c 15 N70-34859 *
NASA-CASE-XLE-00720 ..... c 14 N70-40201 *
NASA-CASE-XLE-00726 ..... c 17 N71-15644 *
NASA-CASE-XLE-00785 ..... c 33 N71-16104 *
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NASA-CASE-XLE-00815 ..... c 15 N70-35407 *
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NASA-CASE-XLE-00953 ..... c 15 N71-15966 *
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NASA-CASE-XLE-01182 ..... c 27 N71-15635 *
NASA-CASE-XLE-01246 ..... c 14 N71-10797 *
NASA-CASE-XLE-01300 ..... c 15 N70-41993 *
NASA-CASE-XLE-01399 ..... c 33 N71-15625 *
NASA-CASE-XLE-01449 ..... c 15 N70-41646 *
NASA-CASE-XLE-01481 ..... c 14 N71-10781 *
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NASA-CASE-XLE-01533 ..... c 11 N71-10777 *
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NASA-CASE-XLE-01609 ..... c 14 N71-10500 *
NASA-CASE-XLE-01640 ..... c 31 N71-15607 *
NASA-CASE-XLE-01645 ..... c 03 N71-20904 *
NASA-CASE-XLE-01716 ..... c 09 N70-40234 *
NASA-CASE-XLE-01765 ..... c 18 N71-10772 *
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NASA-CASE-XLE-01902 ..... c 28 N71-10574 *
NASA-CASE-XLE-01903 ..... c 22 N71-23599 *
NASA-CASE-XLE-01988 ..... c 27 N71-15634 *
NASA-CASE-XLE-01997 ..... c 06 N71-23527 *
NASA-CASE-XLE-02006 ..... c 09 N71-21583 *
NASA-CASE-XLE-02024 ..... c 14 N71-22984 *
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NASA-CASE-XLE-02082 ..... c 17 N71-16026 *
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NASA-CASE-XLE-02426 ..... c 17 N70-33288 *
NASA-CASE-XLE-02531 ..... c 05 N71-23080 *
NASA-CASE-XLE-02545-1 ..... c 76 N79-21910 *
NASA-CASE-XLE-02578 ..... c 25 N71-20747 *
NASA-CASE-XLE-02624 ..... c 12 N69-39988 * #
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NASA-CASE-XLE-02792 ..... c 26 N71-10607 *
NASA-CASE-XLE-02798 ..... c 26 N71-23654 *
NASA-CASE-XLE-02823 ..... c 09 N71-23443 *
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NASA-CASE-XLE-03186-1 ..... c 09 N79-21084 *
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NASA-CASE-XLE-03432 ..... c 33 N71-24145 *
NASA-CASE-XLE-03494 ..... c 27 N71-21819 *
NASA-CASE-XLE-03512 ..... c 12 N69-21466 * #
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NASA-CASE-XLE-03629 ..... c 17 N71-23248 *
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NASA-CASE-XLE-03940 ..... c 18 N71-26153 *
NASA-CASE-XLE-04026 ..... c 14 N71-23267 *
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NASA-CASE-XLE-04501 ..... c 09 N71-23190 *
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NASA-CASE-XLE-04599 ..... c 22 N72-20597 *
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NASA-CASE-XLE-04677 ..... c 15 N71-10577 *
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NASA-CASE-XLE-05230 ..... c 14 N72-27410 *
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NASA-CASE-XLE-05689 ..... c 28 N71-15659 *
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NASA-CASE-XLE-06773 ..... c 15 N71-23817 *
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NASA-CASE-XLE-09527-2 ..... c 15 N71-26189 *
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NASA-CASE-XLE-10337 ..... c 15 N71-24046 *
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NASA-CASE-XLE-10453-2 ..... c 28 N73-27699 *
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NASA-CASE-XLE-10910 ..... c 18 N71-29040 *
NASA-CASE-XLE-2529-2 ..... c 36 N75-27364 *
NASA-CASE-XLE-2529-3 ..... c 33 N74-20859 *

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NASA-CASE-XMS-03700 ..... c 15 N69-24266 * #
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US-PATENT-APPL-SN-098570 ..... c 44 N82-18686 *
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US-PATENT-APPL-SN-100637 ..... c 37 N75-18574 *
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US-PATENT-APPL-SN-102003 ..... c 26 N82-30371 *
US-PATENT-APPL-SN-102004 ..... c 37 N81-26447 *
US-PATENT-APPL-SN-102412 ..... c 25 N72-33696 *
US-PATENT-APPL-SN-102593 ..... c 37 N82-16406 *
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US-PATENT-APPL-SN-103077 ..... c 25 N72-32688 *
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US-PATENT-APPL-SN-103091 ..... c 37 N74-23070 *
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US-PATENT-APPL-SN-103230 ..... c 15 N73-14468 *
US-PATENT-APPL-SN-10329 ..... c 09 N72-25251 *
US-PATENT-APPL-SN-103551 ..... c 31 N73-14854 *
US-PATENT-APPL-SN-103836 ..... c 37 N81-24443 *
US-PATENT-APPL-SN-104047 ..... c 15 N72-31483 *
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US-PATENT-APPL-SN-104188 ..... c 09 N70-34819 *
US-PATENT-APPL-SN-104346 ..... c 14 N73-28488 *
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US-PATENT-APPL-SN-105847 ..... c 31 N89-14351 *
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US-PATENT-APPL-SN-106118 ..... c 32 N80-16261 * #
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US-PATENT-APPL-SN-106188 ..... c 27 N80-16163 * #
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US-PATENT-APPL-SN-107870 ..... c 15 N70-36411 *
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US-PATENT-APPL-SN-10812 ..... c 28 N70-40367 *
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US-PATENT-APPL-SN-108824 ..... c 31 N73-13898 *
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US-PATENT-APPL-SN-110402 ..... c 09 N72-27226 *
US-PATENT-APPL-SN-110591 ..... c 15 N70-36896 *
US-PATENT-APPL-SN-111436 ..... c 33 N82-26569 *
US-PATENT-APPL-SN-111438 ..... c 35 N81-29407 *
US-PATENT-APPL-SN-111439 ..... c 74 N81-24900 *
US-PATENT-APPL-SN-111996 ..... c 21 N73-30640 *
US-PATENT-APPL-SN-11220 ..... c 14 N73-30389 *
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US-PATENT-APPL-SN-113014 ..... c 27 N81-24257 *
US-PATENT-APPL-SN-113015 ..... c 37 N82-24491 *
US-PATENT-APPL-SN-113954 ..... c 33 N90-23636 *
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US-PATENT-APPL-SN-115134 ..... c 06 N73-13128 *
US-PATENT-APPL-SN-115536 ..... c 33 N82-24417 *
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US-PATENT-APPL-SN-116778 ..... c 09 N72-33205 *
US-PATENT-APPL-SN-116786 ..... c 07 N72-25172 *
US-PATENT-APPL-SN-116790 ..... c 14 N73-30388 *
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US-PATENT-APPL-SN-118169 ..... c 14 N70-35220 *
US-PATENT-APPL-SN-118200 ..... c 15 N70-34247 *
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US-PATENT-APPL-SN-11853 ..... c 15 N71-28951 *
US-PATENT-APPL-SN-118992 ..... c 37 N88-29181 *
US-PATENT-APPL-SN-118993 ..... c 52 N90-21519 *
US-PATENT-APPL-SN-118995 ..... c 32 N89-25363 *
US-PATENT-APPL-SN-119282 ..... c 03 N72-23048 *
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US-PATENT-APPL-SN-119340 ..... c 35 N82-11432 *
US-PATENT-APPL-SN-120241 ..... c 15 N73-24513 *
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US-PATENT-APPL-SN-120797 ..... c 14 N70-36824 *
US-PATENT-APPL-SN-120803 ..... c 08 N70-34743 *
US-PATENT-APPL-SN-121328 ..... c 23 N72-11568 * #
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US-PATENT-APPL-SN-122965 ..... c 35 N81-26431 *
US-PATENT-APPL-SN-122966 ..... c 33 N82-26568 *
US-PATENT-APPL-SN-122967 ..... c 24 N81-26179 *
US-PATENT-APPL-SN-123253 ..... c 10 N73-12244 *
US-PATENT-APPL-SN-123597 ..... c 21 N70-34297 *
US-PATENT-APPL-SN-124909 ..... c 14 N73-16483 *
US-PATENT-APPL-SN-125021 ..... c 74 N89-14077 *
US-PATENT-APPL-SN-125234 ..... c 07 N73-16121 *
US-PATENT-APPL-SN-125235 ..... c 51 N77-25769 *
US-PATENT-APPL-SN-125236 ..... c 14 N73-26431 *
US-PATENT-APPL-SN-125666 ..... c 32 N89-28676 *
US-PATENT-APPL-SN-125676 ..... c 35 N90-17118 *
US-PATENT-APPL-SN-125677 ..... c 32 N90-20280 *
US-PATENT-APPL-SN-125678 ..... c 38 N90-23756 *
US-PATENT-APPL-SN-125979 ..... c 09 N72-25255 *
US-PATENT-APPL-SN-126063 ..... c 44 N83-10501 *
US-PATENT-APPL-SN-126064 ..... c 33 N82-18493 *
US-PATENT-APPL-SN-126138 ..... c 34 N82-13376 *
US-PATENT-APPL-SN-12661 ..... c 14 N72-22437 *
US-PATENT-APPL-SN-127234 ..... c 08 N70-35423 *
US-PATENT-APPL-SN-127480 ..... c 37 N75-26371 *
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US-PATENT-APPL-SN-127618 ..... c 02 N73-13008 *
US-PATENT-APPL-SN-127647 ..... c 15 N73-27405 *
US-PATENT-APPL-SN-127915 ..... c 02 N73-26004 *
US-PATENT-APPL-SN-127964 ..... c 33 N75-27250 *
US-PATENT-APPL-SN-128229 ..... c 35 N82-24471 *
US-PATENT-APPL-SN-128230 ..... c 60 N84-28491 *
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US-PATENT-APPL-SN-129071 ..... c 09 N72-25254 *
US-PATENT-APPL-SN-129072 ..... c 15 N73-13487 *
US-PATENT-APPL-SN-129073 ..... c 15 N73-13464 *
US-PATENT-APPL-SN-129379 ..... c 37 N79-33468 *
US-PATENT-APPL-SN-129579 ..... c 28 N70-35381 *
US-PATENT-APPL-SN-129778 ..... c 60 N82-24839 *
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US-PATENT-APPL-SN-129793 ..... c 33 N82-16340 *
US-PATENT-APPL-SN-129796 ..... c 27 N81-27271 *
US-PATENT-APPL-SN-129799 ..... c 27 N82-18389 *
US-PATENT-APPL-SN-130058 ..... c 33 N90-22724 *
US-PATENT-APPL-SN-130353 ..... c 31 N73-14853 *
US-PATENT-APPL-SN-130496 ..... c 36 N83-10417 *
US-PATENT-APPL-SN-132364 ..... c 07 N83-36029 *
US-PATENT-APPL-SN-13266 ..... c 05 N72-23085 *
US-PATENT-APPL-SN-133412 ..... c 33 N89-29681 *

US-PATENT-APPL-SN-133413 ..... c 27 N90-23544 *
US-PATENT-APPL-SN-134479 ..... c 14 N70-33179 *
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US-PATENT-APPL-SN-139012 ..... c 03 N70-36713 *
US-PATENT-APPL-SN-139094 ..... c 05 N73-32011 *
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US-PATENT-APPL-SN-139596 ..... c 33 N77-13315 *
US-PATENT-APPL-SN-140439 ..... c 33 N75-19516 *
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US-PATENT-APPL-SN-161681 ..... c 76 N90-24169 *
US-PATENT-APPL-SN-162100 ..... c 33 N74-14939 *
US-PATENT-APPL-SN-162101 ..... c 14 N73-24473 *
US-PATENT-APPL-SN-162230 ..... c 26 N72-28761 *
US-PATENT-APPL-SN-162360 ..... c 36 N74-21091 *
US-PATENT-APPL-SN-163122 ..... c 07 N83-31603 *
US-PATENT-APPL-SN-163151 ..... c 74 N75-25706 *
US-PATENT-APPL-SN-163152 ..... c 17 N73-27446 *
US-PATENT-APPL-SN-163837 ..... c 47 N83-32232 *
US-PATENT-APPL-SN-163838 ..... c 23 N82-28353 *
US-PATENT-APPL-SN-163840 ..... c 37 N81-33482 *
US-PATENT-APPL-SN-163929 ..... c 27 N90-16949 *
US-PATENT-APPL-SN-164-504 ... c 24 N83-33950 *
US-PATENT-APPL-SN-164426 ..... c 09 N70-35440 *
US-PATENT-APPL-SN-164617 ..... c 06 N81-17057 *
US-PATENT-APPL-SN-165910 ..... c 32 N83-31918 *
US-PATENT-APPL-SN-165943 ..... c 37 N89-28831 *
US-PATENT-APPL-SN-165945 ..... c 35 N90-22025 *
US-PATENT-APPL-SN-165946 ..... c 20 N90-19298 *
US-PATENT-APPL-SN-165956 ..... c 18 N90-19278 *
US-PATENT-APPL-SN-166487 ..... c 11 N73-32152 *
US-PATENT-APPL-SN-166541 ..... c 14 N73-13415 *
US-PATENT-APPL-SN-166969 ..... c 15 N70-34249 *
US-PATENT-APPL-SN-166970 ..... c 15 N70-36409 *
US-PATENT-APPL-SN-167719 ..... c 16 N73-33397 *
US-PATENT-APPL-SN-16808 ..... c 14 N72-22445 *
US-PATENT-APPL-SN-168560 ..... c 02 N70-34856 *
US-PATENT-APPL-SN-168650 ..... c 14 N73-13416 *
US-PATENT-APPL-SN-168943 ..... c 54 N82-26987 *
US-PATENT-APPL-SN-168944 ..... c 37 N82-32731 *
US-PATENT-APPL-SN-169671 ..... c 10 N73-30205 *
US-PATENT-APPL-SN-169962 ..... c 34 N74-30608 *
US-PATENT-APPL-SN-169977 ..... c 14 N70-34794 *
US-PATENT-APPL-SN-170440 ..... c 15 N73-13462 *
US-PATENT-APPL-SN-170544 ..... c 36 N77-19416 *
US-PATENT-APPL-SN-170680 ..... c 34 N74-15652 *
US-PATENT-APPL-SN-170681 ..... c 10 N73-25240 *
US-PATENT-APPL-SN-17101 ..... c 28 N72-18766 *
US-PATENT-APPL-SN-171926 ..... c 33 N82-26570 *
US-PATENT-APPL-SN-171933 ..... c 37 N82-12441 *
US-PATENT-APPL-SN-171934 ..... c 35 N82-26626 *
US-PATENT-APPL-SN-172098 ..... c 33 N80-29583 * #
US-PATENT-APPL-SN-172099 ..... c 32 N82-27558 *
US-PATENT-APPL-SN-172100 ..... c 27 N82-33520 *
US-PATENT-APPL-SN-172100 ..... c 31 N90-21215 *
US-PATENT-APPL-SN-172101 ..... c 76 N90-23242 *
US-PATENT-APPL-SN-172102 ..... c 26 N89-28621 *
US-PATENT-APPL-SN-172105 ..... c 33 N88-24864 * #
US-PATENT-APPL-SN-172459 ..... c 06 N73-16106 *
US-PATENT-APPL-SN-172727 ..... c 33 N81-26360 *
US-PATENT-APPL-SN-172807 ..... c 07 N73-28012 *
US-PATENT-APPL-SN-173081 ..... c 28 N70-36606 *
US-PATENT-APPL-SN-173178 ..... c 33 N77-21315 *
US-PATENT-APPL-SN-173185 ..... c 23 N73-13660 *
US-PATENT-APPL-SN-173190 ..... c 05 N73-32015 *
US-PATENT-APPL-SN-173518 ..... c 60 N82-29013 *
US-PATENT-APPL-SN-173519 ..... c 44 N82-26776 *
US-PATENT-APPL-SN-173520 ..... c 31 N83-27058 *
US-PATENT-APPL-SN-173524 ..... c 35 N82-32659 *
US-PATENT-APPL-SN-173981 ..... c 14 N70-35666 *
US-PATENT-APPL-SN-174684 ..... c 33 N75-31331 *
US-PATENT-APPL-SN-175267 ..... c 14 N73-28486 *
US-PATENT-APPL-SN-175452 ..... c 27 N81-27272 *
US-PATENT-APPL-SN-175452 ..... c 27 N85-21347 *
US-PATENT-APPL-SN-175453 ..... c 85 N82-33288 *
US-PATENT-APPL-SN-175497 ..... c 08 N73-28045 *
US-PATENT-APPL-SN-175852 ..... c 25 N73-25760 *
US-PATENT-APPL-SN-175881 ..... c 09 N73-15235 *
US-PATENT-APPL-SN-175981 ..... c 16 N73-30476 *
US-PATENT-APPL-SN-175983 ..... c 31 N73-32750 *
US-PATENT-APPL-SN-176545 ..... c 31 N88-24817 * #
US-PATENT-APPL-SN-176547 ..... c 76 N90-24168 *
US-PATENT-APPL-SN-176587 ..... c 20 N88-24684 * #
US-PATENT-APPL-SN-177684 ..... c 28 N70-34860 *
US-PATENT-APPL-SN-177753 ..... c 07 N72-20154 * #
US-PATENT-APPL-SN-177985 ..... c 35 N74-15831 *
US-PATENT-APPL-SN-178192 ..... c 25 N83-33977 *
US-PATENT-APPL-SN-178193 ..... c 52 N82-29862 *
US-PATENT-APPL-SN-178195 ..... c 35 N82-24470 *
US-PATENT-APPL-SN-178213 ..... c 25 N70-33267 *
US-PATENT-APPL-SN-178215 ..... c 25 N70-34661 *
US-PATENT-APPL-SN-178721 ..... c 03 N70-35408 *
US-PATENT-APPL-SN-178771 ..... c 23 N75-14834 *
US-PATENT-APPL-SN-180230 ..... c 33 N83-18996 *
US-PATENT-APPL-SN-180370 ..... c 28 N70-33375 *
US-PATENT-APPL-SN-180374 ..... c 28 N70-38181 *
US-PATENT-APPL-SN-180377 ..... c 15 N70-36906 *
US-PATENT-APPL-SN-180379 ..... c 21 N70-35395 *
US-PATENT-APPL-SN-180380 ..... c 09 N70-38998 *
US-PATENT-APPL-SN-180381 ..... c 21 N70-35089 *
US-PATENT-APPL-SN-180382 ..... c 28 N70-38645 *
US-PATENT-APPL-SN-180384 ..... c 11 N70-38675 *
US-PATENT-APPL-SN-180391 ..... c 28 N70-38249 *
US-PATENT-APPL-SN-180392 ..... c 09 N71-13530 *
US-PATENT-APPL-SN-180394 ..... c 15 N70-38603 *
US-PATENT-APPL-SN-180395 ..... c 15 N70-36947 *
US-PATENT-APPL-SN-180396 ..... c 11 N70-38202 *
US-PATENT-APPL-SN-180473 ..... c 28 N73-27699 *
US-PATENT-APPL-SN-180683 ..... c 10 N73-25241 *
US-PATENT-APPL-SN-180963 ..... c 14 N73-27378 *
US-PATENT-APPL-SN-181023 ..... c 15 N73-26472 *
US-PATENT-APPL-SN-181024 ..... c 07 N73-26117 *
US-PATENT-APPL-SN-181828 ..... c 02 N70-34858 *
US-PATENT-APPL-SN-181829 ..... c 31 N70-38010 *
US-PATENT-APPL-SN-182000 ..... c 16 N88-24660 * #
US-PATENT-APPL-SN-182033 ..... c 33 N73-27796 *
US-PATENT-APPL-SN-182266 ..... c 17 N88-24662 * #
US-PATENT-APPL-SN-182399 ..... c 07 N73-28013 *
US-PATENT-APPL-SN-182692 ..... c 15 N70-36535 *
US-PATENT-APPL-SN-182696 ..... c 21 N70-36938 *
US-PATENT-APPL-SN-182696 ..... c 15 N70-38620 *
US-PATENT-APPL-SN-182699 ..... c 28 N70-38504 *
US-PATENT-APPL-SN-182879 ..... c 37 N82-32730 *
US-PATENT-APPL-SN-182880 ..... c 37 N83-19091 *
US-PATENT-APPL-SN-182881 ..... c 18 N83-28064 *
US-PATENT-APPL-SN-182977 ..... c 39 N74-13131 *
US-PATENT-APPL-SN-182978 ..... c 16 N73-13489 *
US-PATENT-APPL-SN-183240 ..... c 06 N73-30098 *
US-PATENT-APPL-SN-183707 ..... c 23 N85-33187 *
US-PATENT-APPL-SN-183977 ..... c 28 N70-36505 *
US-PATENT-APPL-SN-183978 ..... c 15 N70-38020 *
US-PATENT-APPL-SN-184090 ..... c 14 N73-32327 *
US-PATENT-APPL-SN-184233 ..... c 18 N89-28554 *

US-PATENT-APPL-SN-184234

US-PATENT-APPL-SN-184234 ..... c 76 N90-19884 *
US-PATENT-APPL-SN-184235 ..... c 32 N90-17005 *
US-PATENT-APPL-SN-184236 ..... c 37 N90-17153 *
US-PATENT-APPL-SN-18427 ..... c 09 N72-23172 *
US-PATENT-APPL-SN-184649 ..... c 07 N70-36911 *
US-PATENT-APPL-SN-184960 ..... c 06 N73-27980 *
US-PATENT-APPL-SN-185865 ..... c 52 N80-33081 * #
US-PATENT-APPL-SN-185867 ..... c 44 N82-26777 *
US-PATENT-APPL-SN-185868 ..... c 24 N84-16262 *
US-PATENT-APPL-SN-185869 ..... c 71 N82-16800 *
US-PATENT-APPL-SN-186700 ..... c 32 N74-12912 *
US-PATENT-APPL-SN-186881 ..... c 74 N82-30071 *
US-PATENT-APPL-SN-187106 ..... c 74 N83-17305 *
US-PATENT-APPL-SN-187143 ..... c 36 N74-13205 *
US-PATENT-APPL-SN-187262 ..... c 15 N73-27406 *
US-PATENT-APPL-SN-187365 ..... c 35 N74-15127 *
US-PATENT-APPL-SN-187446 ..... c 31 N70-37924 *
US-PATENT-APPL-SN-187716 ..... c 74 N88-25305 * #
US-PATENT-APPL-SN-18776 ..... c 26 N70-33284 *
US-PATENT-APPL-SN-18780 ..... c 12 N70-33305 *
US-PATENT-APPL-SN-188160 ..... c 74 N82-19029 *
US-PATENT-APPL-SN-188594 ..... c 15 N70-34967 *
US-PATENT-APPL-SN-188636 ..... c 35 N74-34857 *
US-PATENT-APPL-SN-188927 ..... c 06 N73-32081 *
US-PATENT-APPL-SN-188928 ..... c 37 N74-13178 *
US-PATENT-APPL-SN-189290 ..... c 14 N73-27379 *
US-PATENT-APPL-SN-189375 ..... c 18 N73-14584 *
US-PATENT-APPL-SN-189438 ..... c 35 N76-15431 *
US-PATENT-APPL-SN-189648 ..... c 32 N70-36536 *
US-PATENT-APPL-SN-18982 ..... c 28 N72-11708 *
US-PATENT-APPL-SN-190185 ..... c 74 N88-25304 * #
US-PATENT-APPL-SN-190316 ..... c 17 N73-32414 *
US-PATENT-APPL-SN-191301 ..... c 25 N74-12813 *
US-PATENT-APPL-SN-191744 ..... c 33 N82-29538 *
US-PATENT-APPL-SN-191746 ..... c 26 N81-16209 * #
US-PATENT-APPL-SN-191746 ..... c 26 N82-30371 *
US-PATENT-APPL-SN-191748 ..... c 35 N82-31659 *
US-PATENT-APPL-SN-192016 ..... c 03 N70-36778 *
US-PATENT-APPL-SN-192101 ..... c 10 N73-20254 *
US-PATENT-APPL-SN-192141 ..... c 07 N73-24176 *
US-PATENT-APPL-SN-192562 ..... c 04 N88-24621 * #
US-PATENT-APPL-SN-192563 ..... c 05 N90-23390 *
US-PATENT-APPL-SN-192803 ..... c 07 N73-22076 * #
US-PATENT-APPL-SN-192803 ..... c 35 N76-16391 *
US-PATENT-APPL-SN-192970 ..... c 23 N73-30665 *
US-PATENT-APPL-SN-193456 ..... c 10 N73-25243 *
US-PATENT-APPL-SN-193671 ..... c 15 N73-12488 *
US-PATENT-APPL-SN-193672 ..... c 54 N74-14845 *
US-PATENT-APPL-SN-193814 ..... c 14 N73-30393 *
US-PATENT-APPL-SN-193947 ..... c 14 N73-13420 *
US-PATENT-APPL-SN-193980 ..... c 31 N74-13177 *
US-PATENT-APPL-SN-195061 ..... c 05 N73-25125 *
US-PATENT-APPL-SN-195222 ..... c 31 N88-24814 * #
US-PATENT-APPL-SN-195223 ..... c 35 N83-21311 *
US-PATENT-APPL-SN-195225 ..... c 32 N88-26541 * #
US-PATENT-APPL-SN-195226 ..... c 31 N83-31895 *
US-PATENT-APPL-SN-195226 ..... c 17 N90-21061 *
US-PATENT-APPL-SN-195227 ..... c 74 N83-32577 *
US-PATENT-APPL-SN-195228 ..... c 74 N83-10900 *
US-PATENT-APPL-SN-195346 ..... c 15 N70-36492 *
US-PATENT-APPL-SN-195347 ..... c 31 N70-34135 *
US-PATENT-APPL-SN-195547 ..... c 32 N83-18975 *
US-PATENT-APPL-SN-19572 ..... c 35 N77-27368 *
US-PATENT-APPL-SN-19585 ..... c 15 N72-25455 *
US-PATENT-APPL-SN-196399 ..... c 07 N73-25161 *
US-PATENT-APPL-SN-196877 ..... c 35 N84-17555 *
US-PATENT-APPL-SN-196898 ..... c 38 N74-15130 *
US-PATENT-APPL-SN-196931 ..... c 35 N74-17885 *
US-PATENT-APPL-SN-196970 ..... c 15 N73-33383 *
US-PATENT-APPL-SN-197183 ..... c 02 N76-22154 *
US-PATENT-APPL-SN-197191 ..... c 32 N89-28672 *
US-PATENT-APPL-SN-197548 ..... c 09 N70-34502 *
US-PATENT-APPL-SN-197551 ..... c 31 N70-34296 *
US-PATENT-APPL-SN-197553 ..... c 08 N70-34778 *
US-PATENT-APPL-SN-197554 ..... c 14 N70-35368 *
US-PATENT-APPL-SN-197689 ..... c 31 N74-14133 *
US-PATENT-APPL-SN-197689 ..... c 31 N75-13111 *
US-PATENT-APPL-SN-197870 ..... c 14 N73-32322 *
US-PATENT-APPL-SN-198093 ..... c 39 N83-20280 *
US-PATENT-APPL-SN-198285 ..... c 09 N73-13208 *
US-PATENT-APPL-SN-198289 ..... c 14 N73-32326 *
US-PATENT-APPL-SN-198355 ..... c 05 N72-15098 * #
US-PATENT-APPL-SN-198362 ..... c 14 N73-28489 *
US-PATENT-APPL-SN-198379 ..... c 15 N73-32359 *
US-PATENT-APPL-SN-198472 ..... c 27 N74-12812 *
US-PATENT-APPL-SN-198763 ..... c 31 N74-18124 *
US-PATENT-APPL-SN-198763 ..... c 31 N74-32920 *
US-PATENT-APPL-SN-198885 ..... c 05 N73-27062 *
US-PATENT-APPL-SN-199199 ..... c 25 N71-29184 *
US-PATENT-APPL-SN-199202 ..... c 14 N70-40239 *
US-PATENT-APPL-SN-19971 ..... c 09 N70-33312 *
US-PATENT-APPL-SN-199785 ..... c 33 N81-12330 * #
US-PATENT-APPL-SN-199786 ..... c 36 N84-28065 *
US-PATENT-APPL-SN-199787 ..... c 33 N83-16626 *
US-PATENT-APPL-SN-199788 ..... c 27 N84-22746 *
US-PATENT-APPL-SN-199788 ..... c 27 N85-20123 *
US-PATENT-APPL-SN-199789 ..... c 26 N82-31505 *
US-PATENT-APPL-SN-199957 ..... c 10 N73-26229 *
US-PATENT-APPL-SN-200040 ..... c 52 N74-10975 *
US-PATENT-APPL-SN-200085 ..... c 26 N73-26751 *
US-PATENT-APPL-SN-200634 ..... c 34 N83-27144 *
US-PATENT-APPL-SN-200682 ..... c 07 N73-14130 *
US-PATENT-APPL-SN-200717 ..... c 09 N73-19234 *
US-PATENT-APPL-SN-200762 ..... c 03 N73-20040 *
US-PATENT-APPL-SN-200770 ..... c 09 N79-21084 *
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US-PATENT-APPL-SN-201782 ..... c 15 N73-19458 *
US-PATENT-APPL-SN-201904 ..... c 15 N73-30458 *
US-PATENT-APPL-SN-201904 ..... c 37 N74-15128 *
US-PATENT-APPL-SN-201904 ..... c 37 N74-21064 *
US-PATENT-APPL-SN-202024 ..... c 14 N70-34156 *
US-PATENT-APPL-SN-202029 ..... c 11 N70-34786 *
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US-PATENT-APPL-SN-202228 ..... c 34 N82-11399 * #
US-PATENT-APPL-SN-202228 ..... c 34 N85-29179 *
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US-PATENT-APPL-SN-203177 ..... c 39 N88-25011 * #
US-PATENT-APPL-SN-203178 ..... c 34 N90-19534 *
US-PATENT-APPL-SN-203271 ..... c 51 N74-15778 *
US-PATENT-APPL-SN-203376 ..... c 32 N88-30001 * #
US-PATENT-APPL-SN-203405 ..... c 02 N73-26006 *
US-PATENT-APPL-SN-203409 ..... c 28 N70-38197 *
US-PATENT-APPL-SN-203411 ..... c 33 N70-34812 *
US-PATENT-APPL-SN-20370 ..... c 33 N79-33393 *
US-PATENT-APPL-SN-204015 ..... c 09 N70-38201 *
US-PATENT-APPL-SN-205047 ..... c 15 N73-32360 *
US-PATENT-APPL-SN-205470 ..... c 08 N71-18752 *
US-PATENT-APPL-SN-205675 ..... c 14 N73-30386 *
US-PATENT-APPL-SN-205771 ..... c 31 N89-29578 *
US-PATENT-APPL-SN-205898 ..... c 09 N90-23415 *
US-PATENT-APPL-SN-205899 ..... c 35 N90-22769 *
US-PATENT-APPL-SN-205900 ..... c 35 N90-22770 *
US-PATENT-APPL-SN-206263 ..... c 76 N74-20329 *
US-PATENT-APPL-SN-206266 ..... c 76 N75-25730 *
US-PATENT-APPL-SN-206279 ..... c 02 N73-26005 *
US-PATENT-APPL-SN-206279 ..... c 05 N76-29217 *
US-PATENT-APPL-SN-206506 ..... c 33 N82-24422 *
US-PATENT-APPL-SN-206698 ..... c 15 N73-30459 *
US-PATENT-APPL-SN-207135 ..... c 35 N83-27184 *
US-PATENT-APPL-SN-207211 ..... c 07 N73-30113 *
US-PATENT-APPL-SN-209478 ..... c 07 N70-38200 *
US-PATENT-APPL-SN-209479 ..... c 15 N70-34850 *
US-PATENT-APPL-SN-209535 ..... c 28 N73-24783 *
US-PATENT-APPL-SN-20960 ..... c 15 N72-17453 *
US-PATENT-APPL-SN-209618 ..... c 33 N75-19520 *
US-PATENT-APPL-SN-209618 ..... c 33 N75-25041 *
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US-PATENT-APPL-SN-210277 ..... c 39 N88-30160 * #
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US-PATENT-APPL-SN-210487 ..... c 35 N90-17117 *
US-PATENT-APPL-SN-210498 ..... c 35 N84-12444 *
US-PATENT-APPL-SN-210506 ..... c 39 N83-32081 *
US-PATENT-APPL-SN-210632 ..... c 26 N83-10170 *
US-PATENT-APPL-SN-211332 ..... c 02 N74-10034 *
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US-PATENT-APPL-SN-211464 ..... c 28 N70-36910 *
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US-PATENT-APPL-SN-212165 ..... c 14 N73-25460 *
US-PATENT-APPL-SN-212173 ..... c 02 N71-13421 *
US-PATENT-APPL-SN-212174 ..... c 15 N70-34859 *
US-PATENT-APPL-SN-212496 ..... c 03 N70-36803 *
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US-PATENT-APPL-SN-212977 ..... c 15 N73-30460 *
US-PATENT-APPL-SN-213004 ..... c 14 N73-19421 *
US-PATENT-APPL-SN-213392 ..... c 27 N90-23566 *
US-PATENT-APPL-SN-213558 ..... c 51 N89-13131 * #
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US-PATENT-APPL-SN-216711 ..... c 03 N70-34157 *
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US-PATENT-APPL-SN-217336 ..... c 27 N82-29456 *
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US-PATENT-APPL-SN-220214 ..... c 44 N82-29710 *
US-PATENT-APPL-SN-220251 ..... c 37 N74-15125 *
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US-PATENT-APPL-SN-220785 ..... c 85 N74-34672 *
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US-PATENT-APPL-SN-221276 ..... c 14 N70-41955 *
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US-PATENT-APPL-SN-221472 ..... c 54 N89-13889 * #
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US-PATENT-APPL-SN-221670 ..... c 35 N77-14408 *
US-PATENT-APPL-SN-221685 ..... c 35 N74-21062 *
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US-PATENT-APPL-SN-223124 ..... c 31 N90-19427 *
US-PATENT-APPL-SN-22320 ..... c 14 N72-11365 *
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US-PATENT-APPL-SN-234223 ..... c 35 N83-21312 *
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US-PATENT-APPL-SN-234225 ..... c 33 N83-36357 *
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US-PATENT-APPL-SN-235150 ..... c 36 N89-12856 * #
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US-PATENT-APPL-SN-235295 ..... c 09 N73-30185 *
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US-PATENT-APPL-SN-235336 ..... c 71 N74-31148 *
US-PATENT-APPL-SN-235472 ..... c 60 N84-28492 *
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US-PATENT-APPL-SN-238790 ..... c 44 N82-29708 *
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US-PATENT-APPL-SN-239803 ..... c 70 N74-13436 *
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US-PATENT-APPL-SN-242797 ..... c 74 N85-22139 *
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US-PATENT-APPL-SN-243684 ..... c 37 N84-12492 *
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US-PATENT-APPL-SN-245063 ..... c 33 N74-11049 *
US-PATENT-APPL-SN-245279 ..... c 25 N74-30502 *
US-PATENT-APPL-SN-245571 ..... c 07 N84-22560 *
US-PATENT-APPL-SN-245941 ..... c 33 N71-17897 *
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US-PATENT-APPL-SN-266943 ..... c 72 N74-19310 *
US-PATENT-APPL-SN-267146 ..... c 37 N90-20409 *
US-PATENT-APPL-SN-267178 ..... c 74 N84-11920 *
US-PATENT-APPL-SN-267179 ..... c 35 N84-12445 *
US-PATENT-APPL-SN-267572 ..... c 73 N74-26767 *
US-PATENT-APPL-SN-267768 ..... c 70 N74-21300 *
US-PATENT-APPL-SN-267862 ..... c 33 N74-21851 *
US-PATENT-APPL-SN-267935 ..... c 71 N83-17235 *
US-PATENT-APPL-SN-269073 ..... c 52 N74-26625 *
US-PATENT-APPL-SN-269212 ..... c 07 N71-10775 *
US-PATENT-APPL-SN-269215 ..... c 14 N70-41332 *
US-PATENT-APPL-SN-269222 ..... c 15 N70-38225 *
US-PATENT-APPL-SN-269450 ..... c 36 N76-18427 *
US-PATENT-APPL-SN-270118 ..... c 33 N71-17610 *
US-PATENT-APPL-SN-270189 ..... c 07 N89-23466 * #
US-PATENT-APPL-SN-270763 ..... c 36 N84-14509 *
US-PATENT-APPL-SN-271821 ..... c 15 N71-10778 *
US-PATENT-APPL-SN-271822 ..... c 15 N71-15967 *
US-PATENT-APPL-SN-271823 ..... c 27 N71-28929 *
US-PATENT-APPL-SN-271824 ..... c 07 N71-21476 *
US-PATENT-APPL-SN-271951 ..... c 35 N74-15092 *
US-PATENT-APPL-SN-272152 ..... c 27 N83-29388 *
US-PATENT-APPL-SN-272233 ..... c 44 N81-27615 * #
US-PATENT-APPL-SN-272234 ..... c 25 N83-13188 *
US-PATENT-APPL-SN-272406 ..... c 33 N84-14422 *
US-PATENT-APPL-SN-272407 ..... c 52 N83-21785 *
US-PATENT-APPL-SN-272837 ..... c 71 N83-36846 *
US-PATENT-APPL-SN-273222 ..... c 33 N74-27683 *
US-PATENT-APPL-SN-273240 ..... c 35 N74-16135 *
US-PATENT-APPL-SN-27340 ..... c 15 N72-20442 *
US-PATENT-APPL-SN-273519 ..... c 35 N75-25122 *
US-PATENT-APPL-SN-273534 ..... c 09 N70-38712 *
US-PATENT-APPL-SN-274348 ..... c 60 N76-18600 *
US-PATENT-APPL-SN-274360 ..... c 32 N74-20809 *
US-PATENT-APPL-SN-274705 ..... c 44 N83-21503 *
US-PATENT-APPL-SN-274706 ..... c 44 N83-21504 *
US-PATENT-APPL-SN-274708 ..... c 35 N84-22929 *
US-PATENT-APPL-SN-275118 ..... c 35 N74-18086 *
US-PATENT-APPL-SN-275909 ..... c 33 N85-21491 *

US-PATENT-APPL-SN-276076 ..... c 72 N84-16959 * #
US-PATENT-APPL-SN-276509 ..... c 74 N81-19896 *
US-PATENT-APPL-SN-276748 ..... c 33 N83-34189 *
US-PATENT-APPL-SN-276749 ..... c 74 N84-23247 *
US-PATENT-APPL-SN-277404 ..... c 05 N70-39922 *
US-PATENT-APPL-SN-277436 ..... c 37 N74-25966 *
US-PATENT-APPL-SN-277596 ..... c 74 N89-24153 * #
US-PATENT-APPL-SN-277833 ..... c 03 N70-41580 *
US-PATENT-APPL-SN-277904 ..... c 26 N74-27425 *
US-PATENT-APPL-SN-277961 ..... c 33 N70-36617 *
US-PATENT-APPL-SN-278137 ..... c 51 N89-25557 * #
US-PATENT-APPL-SN-278790 ..... c 15 N70-34664 *
US-PATENT-APPL-SN-2792 ..... c 14 N70-33386 *
US-PATENT-APPL-SN-279624 ..... c 24 N89-23623 * #
US-PATENT-APPL-SN-279625 ..... c 31 N90-23586 *
US-PATENT-APPL-SN-279630 ..... c 60 N90-25583 *
US-PATENT-APPL-SN-279646 ..... c 08 N71-21042 *
US-PATENT-APPL-SN-279676 ..... c 33 N89-29679 * #
US-PATENT-APPL-SN-279677 ..... c 31 N89-23738 * #
US-PATENT-APPL-SN-279677 ..... c 31 N90-26168 *
US-PATENT-APPL-SN-280029 ..... c 35 N74-15126 *
US-PATENT-APPL-SN-280031 ..... c 26 N73-26752 *
US-PATENT-APPL-SN-280032 ..... c 35 N74-15093 *
US-PATENT-APPL-SN-280151 ..... c 27 N83-36220 *
US-PATENT-APPL-SN-280152 ..... c 54 N86-22112 *
US-PATENT-APPL-SN-280153 ..... c 51 N83-17045 *
US-PATENT-APPL-SN-280154 ..... c 33 N83-10345 *
US-PATENT-APPL-SN-280155 ..... c 24 N84-11214 *
US-PATENT-APPL-SN-280305 ..... c 34 N74-23039 *
US-PATENT-APPL-SN-280362 ..... c 14 N71-28935 *
US-PATENT-APPL-SN-280390 ..... c 37 N74-15128 *
US-PATENT-APPL-SN-280580 ..... c 12 N71-21089 *
US-PATENT-APPL-SN-280776 ..... c 14 N70-40273 *
US-PATENT-APPL-SN-280777 ..... c 08 N70-41961 *
US-PATENT-APPL-SN-281069 ..... c 14 N70-35394 *
US-PATENT-APPL-SN-28175 ..... c 21 N70-33279 *
US-PATENT-APPL-SN-281875 ..... c 25 N74-18551 *
US-PATENT-APPL-SN-281876 ..... c 52 N74-20726 *
US-PATENT-APPL-SN-281877 ..... c 35 N74-15146 *
US-PATENT-APPL-SN-281908 ..... c 25 N75-12086 *
US-PATENT-APPL-SN-282129 ..... c 24 N83-25789 *
US-PATENT-APPL-SN-282191 ..... c 35 N83-29651 *
US-PATENT-APPL-SN-282192 ..... c 74 N83-21949 *
US-PATENT-APPL-SN-282298 ..... c 33 N85-29144 *
US-PATENT-APPL-SN-28235 ..... c 10 N72-17171 *
US-PATENT-APPL-SN-282617 ..... c 15 N70-40156 *
US-PATENT-APPL-SN-282618 ..... c 14 N71-14996 *
US-PATENT-APPL-SN-283106 ..... c 62 N89-24084 * #
US-PATENT-APPL-SN-283502 ..... c 37 N74-21060 *
US-PATENT-APPL-SN-284245 ..... c 33 N74-17928 *
US-PATENT-APPL-SN-284265 ..... c 14 N70-34799 *
US-PATENT-APPL-SN-284266 ..... c 15 N71-16077 *
US-PATENT-APPL-SN-284286 ..... c 44 N84-28203 *
US-PATENT-APPL-SN-284287 ..... c 32 N84-27951 *
US-PATENT-APPL-SN-284288 ..... c 33 N83-36356 *
US-PATENT-APPL-SN-284289 ..... c 34 N84-22903 *
US-PATENT-APPL-SN-284290 ..... c 33 N83-34191 *
US-PATENT-APPL-SN-284314 ..... c 33 N84-16454 *
US-PATENT-APPL-SN-285705 ..... c 37 N74-21056 *
US-PATENT-APPL-SN-286620 ..... c 15 N71-30028 *
US-PATENT-APPL-SN-286824 ..... c 44 N79-19447 *
US-PATENT-APPL-SN-287149 ..... c 35 N74-32878 *
US-PATENT-APPL-SN-287150 ..... c 37 N74-21065 *
US-PATENT-APPL-SN-288267 ..... c 27 N83-31854 *
US-PATENT-APPL-SN-288267 ..... c 27 N84-22745 *
US-PATENT-APPL-SN-288267 ..... c 27 N85-21347 *
US-PATENT-APPL-SN-288847 ..... c 33 N74-27862 *
US-PATENT-APPL-SN-288856 ..... c 33 N74-20859 *
US-PATENT-APPL-SN-288857 ..... c 14 N73-33361 *
US-PATENT-APPL-SN-289017 ..... c 37 N74-27905 *
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US-PATENT-APPL-SN-289033 ..... c 15 N73-32358 *
US-PATENT-APPL-SN-289033 ..... c 37 N74-21055 *
US-PATENT-APPL-SN-289048 ..... c 37 N74-21057 *
US-PATENT-APPL-SN-289049 ..... c 19 N74-15089 *
US-PATENT-APPL-SN-289050 ..... c 20 N74-32919 *
US-PATENT-APPL-SN-290021 ..... c 37 N74-23064 *
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US-PATENT-APPL-SN-290030 ..... c 33 N74-12887 *
US-PATENT-APPL-SN-290043 ..... c 18 N75-27040 *
US-PATENT-APPL-SN-290867 ..... c 28 N70-39931 *
US-PATENT-APPL-SN-290868 ..... c 31 N70-34966 *
US-PATENT-APPL-SN-290870 ..... c 15 N70-38996 *
US-PATENT-APPL-SN-290873 ..... c 10 N71-16058 *
US-PATENT-APPL-SN-290915 ..... c 32 N74-11000 *
US-PATENT-APPL-SN-291131 ..... c 33 N83-31953 *
US-PATENT-APPL-SN-291132 ..... c 33 N83-35227 *
US-PATENT-APPL-SN-291645 ..... c 60 N85-21992 *
US-PATENT-APPL-SN-291845 ..... c 52 N74-27586 *
US-PATENT-APPL-SN-292037 ..... c 33 N90-23635 *
US-PATENT-APPL-SN-292047 ..... c 37 N89-29750 * #
US-PATENT-APPL-SN-292121 ..... c 18 N90-11798 * #
US-PATENT-APPL-SN-292123 ..... c 18 N90-20126 *
US-PATENT-APPL-SN-292124 ..... c 62 N89-29976 * #
US-PATENT-APPL-SN-292130 ..... c 32 N89-25360 * #
US-PATENT-APPL-SN-292131 ..... c 18 N89-25263 * #
US-PATENT-APPL-SN-292141 ..... c 76 N89-30076 * #
US-PATENT-APPL-SN-292146 ..... c 37 N90-23751 *
US-PATENT-APPL-SN-292340 ..... c 52 N79-21750 *
US-PATENT-APPL-SN-292382 ..... c 27 N74-17283 *
US-PATENT-APPL-SN-292477 ..... c 15 N73-12495 * #
US-PATENT-APPL-SN-292596 ..... c 10 N71-29135 *
US-PATENT-APPL-SN-292681 ..... c 33 N74-10194 *
US-PATENT-APPL-SN-292682 ..... c 14 N73-32319 *
US-PATENT-APPL-SN-292685 ..... c 32 N74-20864 *
US-PATENT-APPL-SN-292686 ..... c 20 N74-31269 *
US-PATENT-APPL-SN-292698 ..... c 09 N73-32109 *
US-PATENT-APPL-SN-293412 ..... c 27 N83-34039 *
US-PATENT-APPL-SN-293414 ..... c 37 N84-16560 *
US-PATENT-APPL-SN-293417 ..... c 37 N82-26673 * #
US-PATENT-APPL-SN-293418 ..... c 26 N83 31795 *
US-PATENT-APPL-SN-293419 ..... c 33 N82-24427 * #
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US-PATENT-APPL-SN-293726 ..... c 37 N74-21055 *
US-PATENT-APPL-SN-293727 ..... c 33 N74-14956 *
US-PATENT-APPL-SN-293739 ..... c 35 N74-28097 *
US-PATENT-APPL-SN-294727 ..... c 73 N77-18891 *
US-PATENT-APPL-SN-294738 ..... c 73 N78-28913 *
US-PATENT-APPL-SN-295855 ..... c 23 N71-17802 *
US-PATENT-APPL-SN-296137 ..... c 74 N84-28590 *
US-PATENT-APPL-SN-296622 ..... c 44 N76-31666 *
US-PATENT-APPL-SN-296879 ..... c 26 N71-18064 *
US-PATENT-APPL-SN-297127 ..... c 33 N74-27705 *
US-PATENT-APPL-SN-297128 ..... c 32 N74-26654 *
US-PATENT-APPL-SN-297436 ..... c 33 N79-11314 *
US-PATENT-APPL-SN-297486 ..... c 35 N83-24828 *
US-PATENT-APPL-SN-297488 ..... c 37 N84-16561 *
US-PATENT-APPL-SN-297524 ..... c 33 N84-14424 *
US-PATENT-APPL-SN-297524 ..... c 33 N84-22886 *
US-PATENT-APPL-SN-298150 ..... c 25 N90-23517 *
US-PATENT-APPL-SN-298156 ..... c 37 N75-13261 *
US-PATENT-APPL-SN-298156 ..... c 26 N75-19408 *
US-PATENT-APPL-SN-298157 ..... c 33 N74-21850 *
US-PATENT-APPL-SN-298799 ..... c 14 N71-15962 *
US-PATENT-APPL-SN-298800 ..... c 14 N70-34705 *
US-PATENT-APPL-SN-299042 ..... c 15 N71-15918 *
US-PATENT-APPL-SN-29917 ..... c 15 N73-13465 *
US-PATENT-APPL-SN-29917 ..... c 26 N74-10521 *
US-PATENT-APPL-SN-29917 ..... c 37 N74-13179 *
US-PATENT-APPL-SN-29979 ..... c 09 N75-15662 *
US-PATENT-APPL-SN-300113 ..... c 33 N70-33344 *
US-PATENT-APPL-SN-300712 ..... c 15 N70-35407 *
US-PATENT-APPL-SN-300957 ..... c 33 N71-29053 *
US-PATENT-APPL-SN-301039 ..... c 37 N74-27903 *
US-PATENT-APPL-SN-301075 ..... c 25 N83-29324 *
US-PATENT-APPL-SN-301077 ..... c 33 N84-14421 *
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US-PATENT-APPL-SN-301417 ..... c 71 N74-21014 *
US-PATENT-APPL-SN-301418 ..... c 52 N76-29894 *
US-PATENT-APPL-SN-301419 ..... c 34 N76-17317 *
US-PATENT-APPL-SN-301683 ..... c 07 N71-15907 *
US-PATENT-APPL-SN-301925 ..... c 27 N89-25334 * #
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US-PATENT-APPL-SN-302749 ..... c 14 N70-40201 *
US-PATENT-APPL-SN-302913 ..... c 76 N79-16678 *
US-PATENT-APPL-SN-303670 ..... c 37 N82-11460 * #
US-PATENT-APPL-SN-303671 ..... c 31 N83-31896 *
US-PATENT-APPL-SN-303672 ..... c 71 N83-32516 *
US-PATENT-APPL-SN-304147 ..... c 27 N90-23541 *
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US-PATENT-APPL-SN-304696 ..... c 32 N70-41579 *
US-PATENT-APPL-SN-304705 ..... c 32 N74-20810 *
US-PATENT-APPL-SN-304749 ..... c 11 N71-16028 *
US-PATENT-APPL-SN-30498 ..... c 37 N74-21063 *
US-PATENT-APPL-SN-305012 ..... c 35 N74-15094 *
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US-PATENT-APPL-SN-305638 ..... c 34 N74-23066 *
US-PATENT-APPL-SN-305639 ..... c 37 N74-27904 *
US-PATENT-APPL-SN-306652 ..... c 33 N74-32712 *
US-PATENT-APPL-SN-307269 ..... c 24 N71-10560 *
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US-PATENT-APPL-SN-307727 ..... c 32 N74-20813 *
US-PATENT-APPL-SN-307728 ..... c 34 N74-27861 *
US-PATENT-APPL-SN-307729 ..... c 31 N74-27900 *
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US-PATENT-APPL-SN-308009 ..... c 33 N83-36355 *
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US-PATENT-APPL-SN-308203 ..... c 34 N84-12406 *
US-PATENT-APPL-SN-308204 ..... c 44 N83-26574 *
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US-PATENT-APPL-SN-309291 ..... c 37 N88-23982 *
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US-PATENT-APPL-SN-310034 ..... c 32 N74-30524 *
US-PATENT-APPL-SN-310193 ..... c 33 N74-27682 *
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US-PATENT-APPL-SN-310616 ..... c 35 N74-21017 *
US-PATENT-APPL-SN-310624 ..... c 33 N74-17929 *
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US-PATENT-APPL-SN-312269 ..... c 28 N71-14043 *
US-PATENT-APPL-SN-31242 ..... c 26 N70-33374 *
US-PATENT-APPL-SN-312443 ..... c 10 N71-21473 *
US-PATENT-APPL-SN-313132 ..... c 28 N70-34175 *
US-PATENT-APPL-SN-313135 ..... c 15 N70-35087 *
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US-PATENT-APPL-SN-313381 ..... c 35 N74-15091 *
US-PATENT-APPL-SN-313839 ..... c 37 N90-21390 *
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US-PATENT-APPL-SN-314702 ..... c 71 N84-16940 *
US-PATENT-APPL-SN-314926 ..... c 32 N84-34651 *
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US-PATENT-APPL-SN-315583 ..... c 35 N84-33789 *
US-PATENT-APPL-SN-315584 ..... c 23 N84-16255 *
US-PATENT-APPL-SN-315587 ..... c 25 N83-31743 *
US-PATENT-APPL-SN-315588 ..... c 05 N84-22551 *
US-PATENT-APPL-SN-316477 ..... c 18 N71-10772 *
US-PATENT-APPL-SN-316618 ..... c 07 N74-15453 *
US-PATENT-APPL-SN-31702 ..... c 16 N73-16536 *
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US-PATENT-APPL-SN-317389 ..... c 18 N70-41583 *
US-PATENT-APPL-SN-317391 ..... c 15 N71-15968 *
US-PATENT-APPL-SN-317567 ..... c 36 N75-15029 *
US-PATENT-APPL-SN-317658 ..... c 36 N84-16542 *
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US-PATENT-APPL-SN-318443 ..... c 03 N70-34667 *
US-PATENT-APPL-SN-318648 ..... c 35 N77-14408 *
US-PATENT-APPL-SN-31885 ..... c 10 N72-17172 *
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US-PATENT-APPL-SN-319410 ..... c 37 N74-20063 *
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US-PATENT-APPL-SN-319894 ..... c 03 N71-11053 *
US-PATENT-APPL-SN-319905 ..... c 14 N71-10781 *
US-PATENT-APPL-SN-320233 ..... c 33 N71-15625 *
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US-PATENT-APPL-SN-320621 ..... c 27 N83-34040 *
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US-PATENT-APPL-SN-322321 ..... c 37 N85-21651 *
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US-PATENT-APPL-SN-322998 ..... c 35 N74-32877 *
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US-PATENT-APPL-SN-328760 ..... c 31 N83-35177 *
US-PATENT-APPL-SN-328792 ..... c 35 N75-12273 *
US-PATENT-APPL-SN-329237 ..... c 33 N74-34638 *
US-PATENT-APPL-SN-329243 ..... c 28 N74-33209 *
US-PATENT-APPL-SN-329331 ..... c 15 N71-15906 *
US-PATENT-APPL-SN-329595 ..... c 05 N70-41329 *
US-PATENT-APPL-SN-329958 ..... c 33 N74-22885 *
US-PATENT-APPL-SN-330209 ..... c 15 N70-41646 *
US-PATENT-APPL-SN-330210 ..... c 14 N71-21090 *
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US-PATENT-APPL-SN-331324 ..... c 05 N70-35152 *
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US-PATENT-APPL-SN-331759 ..... c 07 N76-18117 *
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US-PATENT-APPL-SN-332313 ..... c 21 N71-10678 *
US-PATENT-APPL-SN-332339 ..... c 07 N71-11284 *
US-PATENT-APPL-SN-332677 ..... c 33 N90-21951 *
US-PATENT-APPL-SN-333535 ..... c 74 N83-36898 *
US-PATENT-APPL-SN-333537 ..... c 44 N83-32176 *
US-PATENT-APPL-SN-333766 ..... c 31 N71-15663 *
US-PATENT-APPL-SN-333770 ..... c 21 N71-15583 *
US-PATENT-APPL-SN-333912 ..... c 32 N74-19790 *
US-PATENT-APPL-SN-33398 ..... c 14 N70-35587 * #
US-PATENT-APPL-SN-334349 ..... c 35 N75-19611 *
US-PATENT-APPL-SN-334672 ..... c 14 N70-41330 *
US-PATENT-APPL-SN-334678 ..... c 11 N71-10777 *
US-PATENT-APPL-SN-335036 ..... c 45 N84-12654 *
US-PATENT-APPL-SN-335201 ..... c 33 N74-17927 *
US-PATENT-APPL-SN-33535 ..... c 06 N72-17093 *
US-PATENT-APPL-SN-335441 ..... c 14 N71-23268 *
US-PATENT-APPL-SN-336103 ..... c 16 N71-15550 *
US-PATENT-APPL-SN-336319 ..... c 44 N74-33379 *
US-PATENT-APPL-SN-336320 ..... c 15 N71-15966 *
US-PATENT-APPL-SN-336607 ..... c 10 N71-15910 *
US-PATENT-APPL-SN-336608 ..... c 32 N71-17645 *
US-PATENT-APPL-SN-337487 ..... c 33 N74-26977 #
US-PATENT-APPL-SN-337767 ..... c 31 N90-23587 *
US-PATENT-APPL-SN-337816 ..... c 35 N75-15931 *
US-PATENT-APPL-SN-338386 ..... c 15 N84-16231 *
US-PATENT-APPL-SN-338484 ..... c 32 N74-20811 *
US-PATENT-APPL-SN-339040 ..... c 31 N70-41373 *
US-PATENT-APPL-SN-339806 ..... c 07 N74-27490 *
US-PATENT-APPL-SN-339821 ..... c 17 N70-33288 *
US-PATENT-APPL-SN-339825 ..... c 28 N71-15660 *
US-PATENT-APPL-SN-340113 ..... c 16 N70-41578 *
US-PATENT-APPL-SN-340791 ..... c 35 N74-26945 *
US-PATENT-APPL-SN-340862 ..... c 33 N77-26387 *
US-PATENT-APPL-SN-340863 ..... c 25 N76-27383 *
US-PATENT-APPL-SN-340864 ..... c 31 N74-21059 *
US-PATENT-APPL-SN-340871 ..... c 44 N74-19870 *
US-PATENT-APPL-SN-341406 ..... c 71 N83-35781 *
US-PATENT-APPL-SN-341467 ..... c 15 N70-39924 *
US-PATENT-APPL-SN-341621 ..... c 54 N74-20725 *
US-PATENT-APPL-SN-341662 ..... c 08 N74-10942 *
US-PATENT-APPL-SN-3417 ..... c 15 N72-22490 *
US-PATENT-APPL-SN-3418 ..... c 15 N72-20446 *
US-PATENT-APPL-SN-3418 ..... c 15 N73-19457 *
US-PATENT-APPL-SN-342572 ..... c 02 N71-16087 *
US-PATENT-APPL-SN-342574 ..... c 03 N71-20904 *
US-PATENT-APPL-SN-342628 ..... c 74 N85-29749 *
US-PATENT-APPL-SN-342657 ..... c 72 N84-28575 *
US-PATENT-APPL-SN-342871 ..... c 27 N84-33589 *
US-PATENT-APPL-SN-343308 ..... c 19 N74-29410 *
US-PATENT-APPL-SN-343425 ..... c 11 N70-35383 *
US-PATENT-APPL-SN-343426 ..... c 07 N71-20814 *
US-PATENT-APPL-SN-343607 ..... c 18 N74-27397 *
US-PATENT-APPL-SN-343652 ..... c 33 N90-17008 * #
US-PATENT-APPL-SN-343760 ..... c 07 N71-28979 *
US-PATENT-APPL-SN-344410 ..... c 07 N74-33213 *
US-PATENT-APPL-SN-344793 ..... c 03 N71-11056 *
US-PATENT-APPL-SN-344877 ..... c 24 N90-15148 * #
US-PATENT-APPL-SN-345372 ..... c 33 N74-22814 *
US-PATENT-APPL-SN-346356 ..... c 14 N70-41676 *
US-PATENT-APPL-SN-346361 ..... c 37 N74-21064 *
US-PATENT-APPL-SN-346372 ..... c 35 N75-12270 *
US-PATENT-APPL-SN-346483 ..... c 37 N74-32921 *
US-PATENT-APPL-SN-346483 ..... c 37 N76-15461 *
US-PATENT-APPL-SN-347101 ..... c 09 N70-41675 *
US-PATENT-APPL-SN-347626 ..... c 15 N70-40204 *
US-PATENT-APPL-SN-347952 ..... c 37 N75-13265 *
US-PATENT-APPL-SN-347953 ..... c 05 N75-24716 *
US-PATENT-APPL-SN-347960 ..... c 03 N70-39930 *
US-PATENT-APPL-SN-348422 ..... c 27 N76-15311 *
US-PATENT-APPL-SN-348600 ..... c 28 N71-29154 *
US-PATENT-APPL-SN-348787 ..... c 33 N75-19521 *
US-PATENT-APPL-SN-349776 ..... c 09 N70-40234 *
US-PATENT-APPL-SN-349781 ..... c 31 N71-15647 *
US-PATENT-APPL-SN-349782 ..... c 09 N71-16086 *
US-PATENT-APPL-SN-34989 ..... c 36 N74-13205 *
US-PATENT-APPL-SN-350249 ..... c 36 N75-15028 *
US-PATENT-APPL-SN-350250 ..... c 27 N75-27160 *
US-PATENT-APPL-SN-350300 ..... c 31 N74-32920 *
US-PATENT-APPL-SN-350471 ..... c 35 N85-29213 *
US-PATENT-APPL-SN-350472 ..... c 33 N84-14424 *
US-PATENT-APPL-SN-350473 ..... c 07 N84-22559 *
US-PATENT-APPL-SN-350474 ..... c 35 N84-22928 *
US-PATENT-APPL-SN-350475 ..... c 35 N84-28017 *
US-PATENT-APPL-SN-350476 ..... c 26 N84-22734 *
US-PATENT-APPL-SN-350477 ..... c 35 N84-33765 *
US-PATENT-APPL-SN-350813 ..... c 32 N89-28684 * #
US-PATENT-APPL-SN-351259 ..... c 15 N71-10672 *
US-PATENT-APPL-SN-351929 ..... c 33 N75-14957 *
US-PATENT-APPL-SN-351950 ..... c 33 N75-27249 *
US-PATENT-APPL-SN-352381 ..... c 20 N75-18310 *
US-PATENT-APPL-SN-352381 ..... c 37 N76-14461 *
US-PATENT-APPL-SN-352382 ..... c 60 N75-13539 *
US-PATENT-APPL-SN-352383 ..... c 35 N75-16783 *
US-PATENT-APPL-SN-352400 ..... c 26 N71-10607 *
US-PATENT-APPL-SN-352821 ..... c 44 N84-28205 *
US-PATENT-APPL-SN-352827 ..... c 35 N84-28015 *
US-PATENT-APPL-SN-352827 ..... c 35 N85-21596 *
US-PATENT-APPL-SN-352831 ..... c 35 N84-16523 *
US-PATENT-APPL-SN-353162 ..... c 33 N75-26243 *
US-PATENT-APPL-SN-353411 ..... c 37 N89-28846 * #
US-PATENT-APPL-SN-353632 ..... c 15 N71-13789 *
US-PATENT-APPL-SN-353634 ..... c 15 N70-41829 *
US-PATENT-APPL-SN-353637 ..... c 02 N70-34160 *
US-PATENT-APPL-SN-353644 ..... c 07 N71-23098 *
US-PATENT-APPL-SN-353645 ..... c 15 N71-15922 *
US-PATENT-APPL-SN-354060 ..... c 74 N76-19935 *
US-PATENT-APPL-SN-354126 ..... c 37 N82-22496 * #
US-PATENT-APPL-SN-354182 ..... c 10 N71-20841 *
US-PATENT-APPL-SN-354406 ..... c 52 N76-14757 *
US-PATENT-APPL-SN-354407 ..... c 33 N74-22865 *
US-PATENT-APPL-SN-354408 ..... c 35 N75-19614 *
US-PATENT-APPL-SN-354611 ..... c 25 N74-26947 *
US-PATENT-APPL-SN-354612 ..... c 35 N75-30504 *
US-PATENT-APPL-SN-355126 ..... c 17 N71-15644 *
US-PATENT-APPL-SN-355129 ..... c 14 N70-41957 *
US-PATENT-APPL-SN-355130 ..... c 15 N70-40354 *
US-PATENT-APPL-SN-356488 ..... c 08 N71-19544 *
US-PATENT-APPL-SN-356554 ..... c 24 N75-33181 *
US-PATENT-APPL-SN-356555 ..... c 37 N75-19685 *
US-PATENT-APPL-SN-356664 ..... c 31 N75-12161 *
US-PATENT-APPL-SN-356692 ..... c 15 N70-41371 *
US-PATENT-APPL-SN-357126 ..... c 35 N74-34857 *
US-PATENT-APPL-SN-357312 ..... c 27 N76-16229 *
US-PATENT-APPL-SN-357334 ..... c 03 N71-12258 *
US-PATENT-APPL-SN-357336 ..... c 03 N71-12259 *
US-PATENT-APPL-SN-357337 ..... c 15 N71-10782 *
US-PATENT-APPL-SN-357340 ..... c 23 N71-15673 *
US-PATENT-APPL-SN-357757 ..... c 14 N89-28547 * #
US-PATENT-APPL-SN-357759 ..... c 62 N90-10608 * #
US-PATENT-APPL-SN-357936 ..... c 45 N89-28967 * #
US-PATENT-APPL-SN-358027 ..... c 35 N89-28794 * #
US-PATENT-APPL-SN-358028 ..... c 37 N89-28842 * #
US-PATENT-APPL-SN-358088 ..... c 35 N84-33767 *
US-PATENT-APPL-SN-358089 ..... c 71 N84-23233 *
US-PATENT-APPL-SN-358127 ..... c 05 N71-12335 *
US-PATENT-APPL-SN-358398 ..... c 36 N84-22944 *
US-PATENT-APPL-SN-359039 ..... c 32 N74-30523 *
US-PATENT-APPL-SN-359156 ..... c 14 N75-24794 *
US-PATENT-APPL-SN-359157 ..... c 35 N74-18090 *
US-PATENT-APPL-SN-359382 ..... c 32 N85-34327 *
US-PATENT-APPL-SN-359388 ..... c 44 N83-32177 *
US-PATENT-APPL-SN-359459 ..... c 36 N89-28817 * #
US-PATENT-APPL-SN-359460 ..... c 36 N89-28816 * #
US-PATENT-APPL-SN-359532 ..... c 15 N71-28959 *
US-PATENT-APPL-SN-359626 ..... c 35 N84-28018 *
US-PATENT-APPL-SN-359627 ..... c 35 N82-26631 * #
US-PATENT-APPL-SN-359627 ..... c 35 N85-29214 *
US-PATENT-APPL-SN-359801 ..... c 74 N89-29191 * #
US-PATENT-APPL-SN-359957 ..... c 07 N74-32418 *
US-PATENT-APPL-SN-359958 ..... c 37 N74-26976 *
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US-PATENT-APPL-SN-360182 ..... c 31 N70-36654 *
US-PATENT-APPL-SN-360878 ..... c 03 N71-11051 *
US-PATENT-APPL-SN-361200 ..... c 18 N89-28556 * #
US-PATENT-APPL-SN-361215 ..... c 27 N84-14323 *
US-PATENT-APPL-SN-361216 ..... c 35 N84-28016 *
US-PATENT-APPL-SN-361217 ..... c 71 N85-22104 *
US-PATENT-APPL-SN-361479 ..... c 14 N89-28546 * #
US-PATENT-APPL-SN-361531 ..... c 35 N89-28795 * #
US-PATENT-APPL-SN-361666 ..... c 33 N75-30428 *
US-PATENT-APPL-SN-361711 ..... c 24 N82-26387 * #
US-PATENT-APPL-SN-361711 ..... c 24 N84-16262 *
US-PATENT-APPL-SN-361906 ..... c 33 N74-20861 *
US-PATENT-APPL-SN-361907 ..... c 35 N74-27865 *
US-PATENT-APPL-SN-362145 ..... c 32 N75-26194 *
US-PATENT-APPL-SN-362146 ..... c 33 N75-18479 *
US-PATENT-APPL-SN-362261 ..... c 14 N73-32325 *
US-PATENT-APPL-SN-362278 ..... c 37 N78-17385 *
US-PATENT-APPL-SN-363130 ..... c 25 N81-19244 *
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US-PATENT-APPL-SN-363653 ..... c 07 N70-41331 *
US-PATENT-APPL-SN-363654 ..... c 07 N70-41372 *
US-PATENT-APPL-SN-363691 ..... c 20 N76-14190 *
US-PATENT-APPL-SN-363815 ..... c 33 N90-10329 * #
US-PATENT-APPL-SN-364041 ..... c 76 N85-30923 *
US-PATENT-APPL-SN-364072 ..... c 70 N84-28565 *
US-PATENT-APPL-SN-364092 ..... c 76 N83-35888 *
US-PATENT-APPL-SN-364093 ..... c 37 N83-34323 *
US-PATENT-APPL-SN-364094 ..... c 37 N84-28083 *
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US-PATENT-APPL-SN-364126 ..... c 36 N84-22943 *
US-PATENT-APPL-SN-364743 ..... c 37 N89-28841 * #
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US-PATENT-APPL-SN-36534 ..... c 21 N73-14692 *
US-PATENT-APPL-SN-3654 ..... c 35 N77-27367 *
US-PATENT-APPL-SN-365644 ..... c 35 N74-28946 *
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US-PATENT-APPL-SN-366103 ..... c 76 N84-35112 * #
US-PATENT-APPL-SN-366226 ..... c 10 N71-16057 *
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US-PATENT-APPL-SN-367268 ..... c 05 N75-25914 *
US-PATENT-APPL-SN-367293 ..... c 36 N75-19655 *
US-PATENT-APPL-SN-367294 ..... c 76 N75-12810 *
US-PATENT-APPL-SN-367606 ..... c 75 N75-13625 *
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US-PATENT-APPL-SN-369334 ..... c 21 N71-22880 *
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US-PATENT-APPL-SN-370271 ..... c 32 N75-24981 *
US-PATENT-APPL-SN-370501 ..... c 33 N74-26732 *
US-PATENT-APPL-SN-370582 ..... c 18 N76-14186 *
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US-PATENT-APPL-SN-370969 ..... c 23 N71-29049 *
US-PATENT-APPL-SN-370999 ..... c 74 N78-15879 *
US-PATENT-APPL-SN-371322 ..... c 44 N76-14600 *
US-PATENT-APPL-SN-371351 ..... c 76 N84-35113 *
US-PATENT-APPL-SN-371352 ..... c 52 N84-11744 *
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US-PATENT-APPL-SN-372438 ..... c 30 N71-17788 *
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US-PATENT-APPL-SN-374424 ..... c 74 N75-12732 *
US-PATENT-APPL-SN-37444' ..... c 35 N75-19616 *
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US-PATENT-APPL-SN-375405 ..... c 31 N71-15675 *
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US-PATENT-APPL-SN-376487 ..... c 25 N89-28603 * #
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US-PATENT-APPL-SN-377892 ..... c 33 N83-24763 *
US-PATENT-APPL-SN-378080 ..... c 12 N71-24692 *
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US-PATENT-APPL-SN-378127 ..... c 44 N76-18641 *
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US-PATENT-APPL-SN-378535 ..... c 74 N84-23248 *
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US-PATENT-APPL-SN-383086 ..... c 36 N85-21639 *
US-PATENT-APPL-SN-383384 ..... c 06 N84-27733 *
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US-PATENT-APPL-SN-384547 ..... c 36 N85-29264 *
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US-PATENT-APPL-SN-385527 ..... c 31 N71-17729 *
US-PATENT-APPL-SN-385530 ..... c 09 N71-10798 *
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US-PATENT-APPL-SN-386175 ..... c 35 N89-28793 * #
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US-PATENT-APPL-SN-386789 ..... c 35 N75-12271 *
US-PATENT-APPL-SN-386790 ..... c 09 N75-12968 *
US-PATENT-APPL-SN-386793 ..... c 35 N75-25124 *
US-PATENT-APPL-SN-386800 ..... c 15 N71-21404 *
US-PATENT-APPL-SN-387094 ..... c 37 N77-19457 *
US-PATENT-APPL-SN-387095 ..... c 37 N75-33395 *
US-PATENT-APPL-SN-387266 ..... c 35 N75-27328 *
US-PATENT-APPL-SN-387332 ..... c 15 N70-33226 *
US-PATENT-APPL-SN-387342 ..... c 37 N76-18457 *
US-PATENT-APPL-SN-387646 ..... c 37 N85-30336 *
US-PATENT-APPL-SN-387647 ..... c 33 N85-34333 *
US-PATENT-APPL-SN-387648 ..... c 37 N85-21650 *
US-PATENT-APPL-SN-387649 ..... c 09 N85-19990 *
US-PATENT-APPL-SN-387728 ..... c 37 N84-28084 *
US-PATENT-APPL-SN-387928 ..... c 76 N90-17456 * #
US-PATENT-APPL-SN-388023 ..... c 10 N70-41964 *
US-PATENT-APPL-SN-388024 ..... c 32 N71-17609 *
US-PATENT-APPL-SN-38814 ..... c 15 N72-11385 *
US-PATENT-APPL-SN-38816 ..... c 70 N74-13436 *
US-PATENT-APPL-SN-38816 ..... c 74 N78-15879 *
US-PATENT-APPL-SN-388966 ..... c 31 N70-41855 *
US-PATENT-APPL-SN-388967 ..... c 10 N71-23271 *
US-PATENT-APPL-SN-389916 ..... c 18 N75-27041 *
US-PATENT-APPL-SN-389929 ..... c 33 N75-25040 *
US-PATENT-APPL-SN-390049 ..... c 37 N76-16446 * #
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US-PATENT-APPL-SN-390250 ..... c 21 N70-41856 *
US-PATENT-APPL-SN-390251 ..... c 07 N71-23026 *
US-PATENT-APPL-SN-390466 ..... c 24 N75-13032 *
US-PATENT-APPL-SN-390468 ..... c 36 N75-19652 *
US-PATENT-APPL-SN-391343 ..... c 05 N69-21473 * #
US-PATENT-APPL-SN-39185 ..... c 16 N72-25485 *
US-PATENT-APPL-SN-392092 ..... c 51 N84-28361 *
US-PATENT-APPL-SN-392093 ..... c 33 N88-23941 *
US-PATENT-APPL-SN-392094 ..... c 37 N85-29283 *
US-PATENT-APPL-SN-392096 ..... c 02 N84-11136 *
US-PATENT-APPL-SN-392103 ..... c 44 N84-28204 *
US-PATENT-APPL-SN-392104 ..... c 37 N85-20338 *
US-PATENT-APPL-SN-392165 ..... c 71 N90-15710 * #
US-PATENT-APPL-SN-392166 ..... c 76 N90-17455 * #
US-PATENT-APPL-SN-392235 ..... c 37 N90-17137 * #
US-PATENT-APPL-SN-392239 ..... c 33 N90-17009 * #
US-PATENT-APPL-SN-392823 ..... c 25 N74-33378 *
US-PATENT-APPL-SN-392944 ..... c 76 N85-29800 *
US-PATENT-APPL-SN-392965 ..... c 18 N71-22998 *
US-PATENT-APPL-SN-392969 ..... c 09 N71-23573 *
US-PATENT-APPL-SN-392970 ..... c 32 N70-41367 *
US-PATENT-APPL-SN-392973 ..... c 07 N71-23001 *
US-PATENT-APPL-SN-392992 ..... c 15 N71-23052 *
US-PATENT-APPL-SN-39342 ..... c 09 N72-25252 *
US-PATENT-APPL-SN-39343 ..... c 34 N74-18552 *
US-PATENT-APPL-SN-39344 ..... c 14 N72-25409 *
US-PATENT-APPL-SN-393451 ..... c 02 N70-42016 *
US-PATENT-APPL-SN-393456 ..... c 33 N83-16633 * #
US-PATENT-APPL-SN-393461 ..... c 31 N71-17691 *
US-PATENT-APPL-SN-393464 ..... c 23 N71-21821 *
US-PATENT-APPL-SN-393523 ..... c 12 N75-24774 *
US-PATENT-APPL-SN-393524 ..... c 60 N76-21914 *
US-PATENT-APPL-SN-393525 ..... c 31 N74-32917 *
US-PATENT-APPL-SN-393526 ..... c 77 N75-20139 *
US-PATENT-APPL-SN-393527 ..... c 15 N75-13007 *
US-PATENT-APPL-SN-393528 ..... c 36 N75-19654 *
US-PATENT-APPL-SN-393581 ..... c 54 N84-23113 *
US-PATENT-APPL-SN-393582 ..... c 37 N85-21649 *
US-PATENT-APPL-SN-393583 ..... c 27 N83-29392 * #
US-PATENT-APPL-SN-393584 ..... c 37 N85-30334 *
US-PATENT-APPL-SN-393585 ..... c 37 N82-31690 * #
US-PATENT-APPL-SN-393586 ..... c 54 N84-28484 *
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US-PATENT-APPL-SN-394149 ..... c 35 N75-25123 *
US-PATENT-APPL-SN-394206 ..... c 76 N75-25730 *
US-PATENT-APPL-SN-394207 ..... c 25 N78-27226 *
US-PATENT-APPL-SN 394280 ..... c 54 N82-29002 *
US-PATENT-APPL-SN-394638 ..... c 28 N70-34162 *
US-PATENT-APPL-SN-394898 ..... c 07 N77-28118 *
US-PATENT-APPL-SN 395348 ..... c 15 N71-22713 *
US-PATENT-APPL-SN-395493 ..... c 37 N79-13364 *
US-PATENT-APPL-SN-395495 ..... c 54 N75-27759 *
US-PATENT-APPL-SN-395687 ..... c 37 N75-18573 *
US-PATENT-APPL-SN-395868 ..... c 33 N75-19516 *
US-PATENT-APPL-SN-395895 ..... c 36 N78-17366 *
US-PATENT-APPL-SN-396262 ..... c 31 N90-10310 * #
US-PATENT-APPL-SN-396263 ..... c 35 N90-23712 *
US-PATENT-APPL-SN-396443 ..... c 15 N71-15986 *
US-PATENT-APPL-SN-396444 ..... c 10 N71-20782 *
US-PATENT-APPL-SN-397281 ..... c 76 N83-34796 *
US-PATENT-APPL-SN-397476 ..... c 34 N75-12222 *
US-PATENT-APPL-SN-397477 ..... c 33 N75-19517 *
US-PATENT-APPL-SN-397478 ..... c 52 N75-33640 *
US-PATENT-APPL-SN-39755 ..... c 08 N72-21198 *
US-PATENT-APPL-SN-397665 ..... c 10 N70-41991 *
US-PATENT-APPL-SN-398131 ..... c 05 N70-41297 *
US-PATENT-APPL-SN-398132 ..... c 15 N70-41808 *
US-PATENT-APPL-SN-398885 ..... c 27 N76-15310 *
US-PATENT-APPL-SN-398886 ..... c 07 N75-24736 *
US-PATENT-APPL-SN-398901 ..... c 37 N75-25186 *
US-PATENT-APPL-SN-399074 ..... c 33 N88-14271 *
US-PATENT-APPL-SN-399419 ..... c 21 N71-23289 *
US-PATENT-APPL-SN-400467 ..... c 33 N75-30431 *
US-PATENT-APPL-SN-400613 ..... c 15 N71-21528 *
US-PATENT-APPL-SN-400617 ..... c 31 N71-17629 *
US-PATENT-APPL-SN-400857 ..... c 31 N79-21225 *
US-PATENT-APPL-SN-401224 ..... c 38 N78-17396 *
US-PATENT-APPL-SN-401225 ..... c 38 N78-17395 *
US-PATENT-APPL-SN-401282 ..... c 18 N85-29991 *
US-PATENT-APPL-SN-401288 ..... c 37 N84-28061 *
US-PATENT-APPL-SN-401466 ..... c 09 N75-24758 *
US-PATENT-APPL-SN-401919 ..... c 24 N76-24363 *
US-PATENT-APPL-SN-401920 ..... c 37 N75-25185 *
US-PATENT-APPL-SN-401921 ..... c 24 N76-14203 *
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US-PATENT-APPL-SN-402365 ..... c 31 N71-17730 *
US-PATENT-APPL-SN-402865 ..... c 33 N74-32660 *
US-PATENT-APPL-SN-402867 ..... c 35 N75-33367 *
US-PATENT-APPL-SN-402868 ..... c 35 N75-19612 *
US-PATENT-APPL-SN-402978 ..... c 10 N71-23084 *
US-PATENT-APPL-SN-403154 ..... c 37 N77-22480 *
US-PATENT-APPL-SN-403371 ..... c 27 N82-33523 * #
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US-PATENT-APPL-SN-403694 ..... c 54 N75-12616 *
US-PATENT-APPL-SN-403695 ..... c 35 N77-20399 *
US-PATENT-APPL-SN-403847 ..... c 31 N83-35176 *
US-PATENT-APPL-SN-403848 ..... c 33 N85-21493 *
US-PATENT-APPL-SN-403849 ..... c 35 N87-21304 *
US-PATENT-APPL-SN-403959 ..... c 14 N70-41994 *
US-PATENT-APPL-SN-403960 ..... c 14 N70-41366 *
US-PATENT-APPL-SN-404212 ..... c 14 N73-32324 *
US-PATENT-APPL-SN-404288 ..... c 33 N90-16124 * #
US-PATENT-APPL-SN-404289 ..... c 26 N90-15227 * #
US-PATENT-APPL-SN-404290 ..... c 34 N90-17051 * #
US-PATENT-APPL-SN-404291 ..... c 74 N90-15733 * #
US-PATENT-APPL-SN-404292 ..... c 37 N90-15443 * #
US-PATENT-APPL-SN-404293 ..... c 32 N90-16104 * #
US-PATENT-APPL-SN-404809 ..... c 27 N84-27885 *
US-PATENT-APPL-SN-404809 ..... c 25 N85-28982 *
US-PATENT-APPL-SN-405154 ..... c 37 N90-15442 * #
US-PATENT-APPL-SN-405168 ..... c 70 N90-17403 * #
US-PATENT-APPL-SN-405169 ..... c 33 N90-17011 * #
US-PATENT-APPL-SN-405341 ..... c 37 N76-15460 *
US-PATENT-APPL-SN-405342 ..... c 35 N75-19615 *
US-PATENT-APPL-SN-405346 ..... c 37 N75-30562 *
US-PATENT-APPL-SN-405629 ..... c 09 N71-10677 *
US-PATENT-APPL-SN-405630 ..... c 14 N71-10616 *
US-PATENT-APPL-SN-405632 ..... c 21 N71-15582 *
US-PATENT-APPL-SN-406097 ..... c 14 N71-21088 *
US-PATENT-APPL-SN-406296 ..... c 25 N79-10163 *
US-PATENT-APPL-SN-406715 ..... c 35 N75-15014 *
US-PATENT-APPL-SN-406820 ..... c 74 N86-32266 *
US-PATENT-APPL-SN-407240 ..... c 27 N83-34041 *
US-PATENT-APPL-SN-407240 ..... c 27 N85-20124 *
US-PATENT-APPL-SN-407323 ..... c 32 N75-21485 *
US-PATENT-APPL-SN-407595 ..... c 28 N70-41992 *
US-PATENT-APPL-SN-407599 ..... c 14 N71-21091 *
US-PATENT-APPL-SN-407603 ..... c 05 N71-11199 *
US-PATENT-APPL-SN-408435 ..... c 15 N71-28937 *
US-PATENT-APPL-SN-408438 ..... c 07 N71-22750 *
US-PATENT-APPL-SN-408442 ..... c 10 N71-23662 *
US-PATENT-APPL-SN-408575 ..... c 35 N83-32026 *
US-PATENT-APPL-SN-409126 ..... c 18 N71-21068 *
US-PATENT-APPL-SN-409678 ..... c 09 N84-27749 *
US-PATENT-APPL-SN-409679 ..... c 33 N82-33634 * #
US-PATENT-APPL-SN-409679 ..... c 33 N84-22884 *
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US-PATENT-APPL-SN-409990 ..... c 35 N75-27330 *
US-PATENT-APPL-SN-409991 ..... c 33 N75-13139 *
US-PATENT-APPL-SN-410325 ..... c 18 N71-23088 *
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US-PATENT-APPL-SN-410331 ..... c 02 N70-41589 *
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US-PATENT-APPL-SN-410572 ..... c 27 N90-15259 * #
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US-PATENT-APPL-SN-411949 ..... c 27 N71-15635 *
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US-PATENT-APPL-SN-412079 ..... c 37 N75-13266 *
US-PATENT-APPL-SN-412080 ..... c 36 N75-19653 *
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US-PATENT-APPL-SN-413101 ..... c 07 N86-20389 *
US-PATENT-APPL-SN-41345 ..... c 09 N72-29172 *
US-PATENT-APPL-SN-41346 ..... c 15 N72-24522 *
US-PATENT-APPL-SN-41347 ..... c 09 N72-25256 *
US-PATENT-APPL-SN-41348 ..... c 09 N72-23173 *
US-PATENT-APPL-SN-413661 ..... c 15 N71-23024 *
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US-PATENT-APPL-SN-414042 ..... c 35 N79-17192 *
US-PATENT-APPL-SN-414043 ..... c 27 N76-32315 *
US-PATENT-APPL-SN-41404 ..... c 03 N73-20039 *
US-PATENT-APPL-SN-414106 ..... c 54 N84-16803 *
US-PATENT-APPL-SN-414107 ..... c 35 N84-22932 *
US-PATENT-APPL-SN-414237 ..... c 35 N85-30282 *
US-PATENT-APPL-SN-41430 ..... c 10 N72-20221 *
US-PATENT-APPL-SN-41431 ..... c 37 N77-27400 *
US-PATENT-APPL-SN-414482 ..... c 10 N71-10578 *
US-PATENT-APPL-SN-41455 ..... c 02 N70-33255 *
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US-PATENT-APPL-SN-416938 ..... c 11 N71-10746 *
US-PATENT-APPL-SN-416940 ..... c 21 N71-21706 *
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US-PATENT-APPL-SN-416945 ..... c 10 N71-23543 *
US-PATENT-APPL-SN-416946 ..... c 28 N71-15563 *
US-PATENT-APPL-SN-417253 ..... c 11 N71-23042 *
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US-PATENT-APPL-SN-418138 ..... c 16 N84-27784 *
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US-PATENT-APPL-SN-418933 ..... c 15 N71-23022 *
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US-PATENT-APPL-SN-419747 ..... c 17 N76-21250 *
US-PATENT-APPL-SN-419748 ..... c 27 N76-14264 *
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US-PATENT-APPL-SN-42022 ..... c 15 N70-35409 *
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US-PATENT-APPL-SN-420250 ..... c 15 N71-23051 *
US-PATENT-APPL-SN-420424 ..... c 34 N75-26262 *
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US-PATENT-APPL-SN-42088 ..... c 34 N78-17336 *
US-PATENT-APPL-SN-421702 ..... c 44 N75-32581 *
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US-PATENT-APPL-SN-422096 ..... c 03 N71-29044 *
US-PATENT-APPL-SN-422097 ..... c 11 N71-21481 *
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US-PATENT-APPL-SN-423016 ..... c 36 N85-21631 *
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US-PATENT-APPL-SN-424157 ..... c 28 N70-41275 *
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US-PATENT-APPL-SN-425201 ..... c 04 N86-19304 *
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US-PATENT-APPL-SN-425203 ..... c 35 N84-22930 *
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US-PATENT-APPL-SN-425364 ..... c 33 N71-15623 *
US-PATENT-APPL-SN-425365 ..... c 32 N71-21045 *
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US-PATENT-APPL-SN-434148 ..... c 31 N71-24750 *
US-PATENT-APPL-SN-434672 ..... c 34 N84-14461 *
US-PATENT-APPL-SN-434674 ..... c 34 N83-35307 *
US-PATENT-APPL-SN-435387 ..... c 10 N70-42032 *
US-PATENT-APPL-SN-435433 ..... c 14 N71-30026 *
US-PATENT-APPL-SN-435511 ..... c 27 N84-27886 *
US-PATENT-APPL-SN-435756 ..... c 12 N71-16894 *
US-PATENT-APPL-SN-436313 ..... c 54 N77-32721 *
US-PATENT-APPL-SN-436315 ..... c 26 N75-19408 *
US-PATENT-APPL-SN-436316 ..... c 20 N76-14191 *
US-PATENT-APPL-SN-436317 ..... c 37 N76-24575 *

US-PATENT-APPL-SN-437556 ..... c 27 N76-16230 *
US-PATENT-APPL-SN-437611 ..... c 09 N71-22796 *
US-PATENT-APPL-SN-437912 ..... c 33 N85-29142 *
US-PATENT-APPL-SN-437917 ..... c 60 N85-33701 *
US-PATENT-APPL-SN-438135 ..... c 09 N71-23027 *
US-PATENT-APPL-SN-438147 ..... c 75 N76-14931 *
US-PATENT-APPL-SN-438446 ..... c 74 N86-20126 *
US-PATENT-APPL-SN-438797 ..... c 14 N71-10500 *
US-PATENT-APPL-SN-43883 ..... c 18 N73-30532 *
US-PATENT-APPL-SN-43884 ..... c 15 N72-25457 *
US-PATENT-APPL-SN-439317 ..... c 27 N90-26953 * #
US-PATENT-APPL-SN-439489 ..... c 09 N70-41717 *
US-PATENT-APPL-SN-439490 ..... c 23 N69-24332 * #
US-PATENT-APPL-SN-440033 ..... c 27 N70-41897 *
US-PATENT-APPL-SN-440036 ..... c 09 N71-23097 *
US-PATENT-APPL-SN-440039 ..... c 09 N71-22688 *
US-PATENT-APPL-SN-440656 ..... c 27 N85-21348 *
US-PATENT-APPL-SN-440916 ..... c 33 N75-27252 *
US-PATENT-APPL-SN-440917 ..... c 37 N76-18459 *
US-PATENT-APPL-SN-441279 ..... c 35 N75-29382 *
US-PATENT-APPL-SN-441671 ..... c 37 N90-27115 * #
US-PATENT-APPL-SN-441672 ..... c 37 N90-15444 * #
US-PATENT-APPL-SN-441673 ..... c 37 N90-16272 * #
US-PATENT-APPL-SN-441896 ..... c 76 N90-20896 *
US-PATENT-APPL-SN-441897 ..... c 35 N84-33768 *
US-PATENT-APPL-SN-441899 ..... c 27 N84-14322 *
US-PATENT-APPL-SN-441936 ..... c 14 N69-39975 * #
US-PATENT-APPL-SN-442558 ..... c 15 N71-10799 *
US-PATENT-APPL-SN-442815 ..... c 76 N87-23286 *
US-PATENT-APPL-SN-442835 ..... c 26 N71-29156 *
US-PATENT-APPL-SN-443289 ..... c 27 N90-15262 * #
US-PATENT-APPL-SN-443297 ..... c 33 N90-27042 * #
US-PATENT-APPL-SN-443414 ..... c 27 N90-16925 * #
US-PATENT-APPL-SN-443523 ..... c 20 N90-15130 * #
US-PATENT-APPL-SN-443539 ..... c 32 N90-16975 * #
US-PATENT-APPL-SN-444067 ..... c 02 N71-11041 * #
US-PATENT-APPL-SN-444124 ..... c 52 N84-23095 *
US-PATENT-APPL-SN-444125 ..... c 20 N83-17588 * #
US-PATENT-APPL-SN-444149 ..... c 47 N84-28292 *
US-PATENT-APPL-SN-444150 ..... c 35 N84-22933 *
US-PATENT-APPL-SN-444248 ..... c 52 N90-16391 * #
US-PATENT-APPL-SN-445178 ..... c 37 N76-15461 *
US-PATENT-APPL-SN-445292 ..... c 11 N71-23030 *
US-PATENT-APPL-SN-445396 ..... c 74 N78-15880 *
US-PATENT-APPL-SN-445807 ..... c 14 N71-22996 *
US-PATENT-APPL-SN-446071 ..... c 25 N82-29370 *
US-PATENT-APPL-SN-446131 ..... c 14 N71-22992 *
US-PATENT-APPL-SN-446560 ..... c 12 N76-15189 *
US-PATENT-APPL-SN-446562 ..... c 36 N76-14447 *
US-PATENT-APPL-SN-446564 ..... c 35 N75-26334 *
US-PATENT-APPL-SN-446567 ..... c 34 N76-27515 *
US-PATENT-APPL-SN-446568 ..... c 37 N76-23570 *
US-PATENT-APPL-SN-446569 ..... c 77 N75-20140 *
US-PATENT-APPL-SN-447124 ..... c 35 N75-30503 *
US-PATENT-APPL-SN-447371 ..... c 27 N84-22746 *
US-PATENT-APPL-SN-447927 ..... c 11 N71-10776 *
US-PATENT-APPL-SN-447928 ..... c 15 N71-10577 *
US-PATENT-APPL-SN-447930 ..... c 14 N69-39896 * #
US-PATENT-APPL-SN-447933 ..... c 03 N69-21337 * #
US-PATENT-APPL-SN-448320 ..... c 91 N76-30131 *
US-PATENT-APPL-SN-448321 ..... c 27 N78-32261 *
US-PATENT-APPL-SN-448323 ..... c 18 N76-17185 *
US-PATENT-APPL-SN-448325 ..... c 33 N75-26244 *
US-PATENT-APPL-SN-448365 ..... c 10 N71-26414 *
US-PATENT-APPL-SN-448881 ..... c 32 N85-29118 *
US-PATENT-APPL-SN-448898 ..... c 15 N70-41310 *
US-PATENT-APPL-SN-449118 ..... c 33 N75-19524 *
US-PATENT-APPL-SN-449153 ..... c 54 N75-27761 *
US-PATENT-APPL-SN-449210 ..... c 27 N90-26956 * #
US-PATENT-APPL-SN-449901 ..... c 28 N70-41967 *
US-PATENT-APPL-SN-449902 ..... c 14 N70-41681 *
US-PATENT-APPL-SN-450166 ..... c 33 N84-27975 *
US-PATENT-APPL-SN-450319 ..... c 33 N84-33661 *
US-PATENT-APPL-SN-450500 ..... c 37 N76-18455 *
US-PATENT-APPL-SN-450502 ..... c 37 N76-18456 *
US-PATENT-APPL-SN-450504 ..... c 23 N77-17161 *
US-PATENT-APPL-SN-450505 ..... c 37 N75-31446 *
US-PATENT-APPL-SN-45053 ..... c 33 N75-31330 *
US-PATENT-APPL-SN-451596 ..... c 17 N71-29137 *
US-PATENT-APPL-SN-451896 ..... c 26 N86-32551 *
US-PATENT-APPL-SN-452464 ..... c 24 N84-11213 *
US-PATENT-APPL-SN-452465 ..... c 25 N90-11824 *
US-PATENT-APPL-SN-452466 ..... c 03 N84-33394 *
US-PATENT-APPL-SN-452761 ..... c 33 N75-19522 *
US-PATENT-APPL-SN-452767 ..... c 05 N75-25915 *
US-PATENT-APPL-SN-452768 ..... c 52 N76-30793 *
US-PATENT-APPL-SN-452769 ..... c 44 N76-16612 *
US-PATENT-APPL-SN-452770 ..... c 33 N75-31332 *
US-PATENT-APPL-SN-452944 ..... c 18 N71-24183 *
US-PATENT-APPL-SN-452945 ..... c 18 N69-39979 * #
US-PATENT-APPL-SN-453115 ..... c 32 N76-14321 *
US-PATENT-APPL-SN-453225 ..... c 15 N71-24833 *
US-PATENT-APPL-SN-453227 ..... c 31 N71-10582 *
US-PATENT-APPL-SN-453229 ..... c 17 N71-23828 *
US-PATENT-APPL-SN-453231 ..... c 23 N71-15467 *
US-PATENT-APPL-SN-453232 ..... c 15 N71-21311 *

US-PATENT-APPL-SN-453232 ..... c 18 N75-19329 *
US-PATENT-APPL-SN-453241 ..... c 33 N75-29318 *
US-PATENT-APPL-SN-455163 ..... c 32 N75-26195 *
US-PATENT-APPL-SN-455165 ..... c 36 N75-30524 *
US-PATENT-APPL-SN-45519 ..... c 14 N72-25410 *
US-PATENT-APPL-SN-455352 ..... c 33 N71-20834 *
US-PATENT-APPL-SN-455477 ..... c 08 N71-19687 *
US-PATENT-APPL-SN-45549 ..... c 27 N76-16228 *
US-PATENT-APPL-SN-456460 ..... c 26 N84-27855 *
US-PATENT-APPL-SN-456578 ..... c 07 N70-41678 *
US-PATENT-APPL-SN-456581 ..... c 09 N71-23021 *
US-PATENT-APPL-SN-456874 ..... c 06 N71-23499 *
US-PATENT-APPL-SN-457295 ..... c 20 N75-24837 *
US-PATENT-APPL-SN-457874 ..... c 09 N71-23545 *
US-PATENT-APPL-SN-457875 ..... c 31 N70-42015 *
US-PATENT-APPL-SN-457876 ..... c 02 N71-12243 *
US-PATENT-APPL-SN-457879 ..... c 15 N71-21078 *
US-PATENT-APPL-SN-457990 ..... c 85 N85-34722 *
US-PATENT-APPL-SN-457992 ..... c 35 N85-29212 *
US-PATENT-APPL-SN-458274 ..... c 37 N90-15445 * #
US-PATENT-APPL-SN-458280 ..... c 60 N90-27268 * #
US-PATENT-APPL-SN-458467 ..... c 76 N90-17454 * #
US-PATENT-APPL-SN-458484 ..... c 44 N76-14595 *
US-PATENT-APPL-SN-459029 ..... c 37 N90-27110 * #
US-PATENT-APPL-SN-459138 ..... c 14 N71-10773 *
US-PATENT-APPL-SN-459407 ..... c 14 N73-30391 *
US-PATENT-APPL-SN-459736 ..... c 33 N75-26245 *
US-PATENT-APPL-SN-459842 ..... c 35 N85-30281 *
US-PATENT-APPL-SN-460509 ..... c 37 N84-33807 *
US-PATENT-APPL-SN-460733 ..... c 37 N83-20154 * #
US-PATENT-APPL-SN-460876 ..... c 09 N69-21470 * #
US-PATENT-APPL-SN-460877 ..... c 33 N71-23085 *
US-PATENT-APPL-SN-461073 ..... c 33 N75-26246 *
US-PATENT-APPL-SN-461477 ..... c 37 N75-19686 *
US-PATENT-APPL-SN-461724 ..... c 31 N85-21404 *
US-PATENT-APPL-SN-461765 ..... c 17 N71-23046 *
US-PATENT-APPL-SN-461786 ..... c 27 N85-21349 *
US-PATENT-APPL-SN-462341 ..... c 44 N76-31666 *
US-PATENT-APPL-SN-462424 ..... c 24 N77-19171 *
US-PATENT-APPL-SN-462497 ..... c 25 N85-21279 *
US-PATENT-APPL-SN-462506 ..... c 35 N86-19580 *
US-PATENT-APPL-SN-462705 ..... c 37 N75-19684 *
US-PATENT-APPL-SN-462762 ..... c 12 N69-21466 * #
US-PATENT-APPL-SN-462763 ..... c 14 N71-22991 *
US-PATENT-APPL-SN-462844 ..... c 33 N75-19520 *
US-PATENT-APPL-SN-462903 ..... c 37 N76-14461 *
US-PATENT-APPL-SN-463456 ..... c 37 N85-30333 *
US-PATENT-APPL-SN-463720 ..... c 62 N90-27384 * #
US-PATENT-APPL-SN-463925 ..... c 74 N76-30053 *
US-PATENT-APPL-SN-464720 ..... c 32 N76-16249 *
US-PATENT-APPL-SN-464721 ..... c 37 N75-26372 *
US-PATENT-APPL-SN-464722 ..... c 35 N76-22509 *
US-PATENT-APPL-SN-464723 ..... c 33 N75-30429 *
US-PATENT-APPL-SN-464878 ..... c 10 N71-22986 *
US-PATENT-APPL-SN-464879 ..... c 14 N71-21072 *
US-PATENT-APPL-SN-464880 ..... c 33 N71-21586 *
US-PATENT-APPL-SN-464885 ..... c 15 N71-22997 *
US-PATENT-APPL-SN-465363 ..... c 52 N84-28389 *
US-PATENT-APPL-SN-465364 ..... c 44 N85-20530 *
US-PATENT-APPL-SN-465365 ..... c 43 N86-19711 *
US-PATENT-APPL-SN-465366 ..... c 27 N85-20126 *
US-PATENT-APPL-SN-465367 ..... c 27 N84-22748 *
US-PATENT-APPL-SN-465369 ..... c 76 N86-28760 *
US-PATENT-APPL-SN-465370 ..... c 52 N83-29991 * #
US-PATENT-APPL-SN-466390 ..... c 28 N71-20330 *
US-PATENT-APPL-SN-466868 ..... c 22 N71-23599 *
US-PATENT-APPL-SN-466873 ..... c 17 N71-20743 *
US-PATENT-APPL-SN-466875 ..... c 08 N71-22707 *
US-PATENT-APPL-SN-467820 ..... c 26 N71-26779 *
US-PATENT-APPL-SN-468614 ..... c 60 N77-14751 *
US-PATENT-APPL-SN-468614 ..... c 60 N77-32731 *
US-PATENT-APPL-SN-468614 ..... c 60 N76-10709 *
US-PATENT-APPL-SN-468647 ..... c 21 N71-10771 *
US-PATENT-APPL-SN-468655 ..... c 15 N69-21471 * #
US-PATENT-APPL-SN-469011 ..... c 11 N69-21540 * #
US-PATENT-APPL-SN-469012 ..... c 25 N71-20747 *
US-PATENT-APPL-SN-469013 ..... c 14 N69-27423 * #
US-PATENT-APPL-SN-469371 ..... c 05 N86-19310 *
US-PATENT-APPL-SN-469664 ..... c 37 N86-19605 *
US-PATENT-APPL-SN-469866 ..... c 27 N84-22749 *
US-PATENT-APPL-SN-470113 ..... c 17 N87-16863 *
US-PATENT-APPL-SN-470114 ..... c 25 N83-24572 * #
US-PATENT-APPL-SN-470428 ..... c 33 N76-16332 *
US-PATENT-APPL-SN-470429 ..... c 33 N75-31329 *
US-PATENT-APPL-SN-470480 ..... c 20 N90-26073 * #
US-PATENT-APPL-SN-47061 ..... c 26 N72-25680 *
US-PATENT-APPL-SN-47062 ..... c 15 N72-17451 *
US-PATENT-APPL-SN-47063 ..... c 33 N72-25911 *
US-PATENT-APPL-SN-47063 ..... c 33 N73-25952 *
US-PATENT-APPL-SN-470663 ..... c 37 N90-26341 * #
US-PATENT-APPL-SN-470902 ..... c 06 N71-28608 *
US-PATENT-APPL-SN-471154 ..... c 09 N73-28084 *
US-PATENT-APPL-SN-47120 ..... c 31 N70-33242 *
US-PATENT-APPL-SN-47121 ..... c 09 N70-39915 *
US-PATENT-APPL-SN-47122 ..... c 14 N70-34813 *
US-PATENT-APPL-SN-47123 ..... c 15 N70-34817 *

US-PATENT-APPL-SN-472066 ..... c 31 N70-42075 *
US-PATENT-APPL-SN-472372 ..... c 07 N71-20791 *
US-PATENT-APPL-SN-472643 ..... c 33 N79-21265 *
US-PATENT-APPL-SN-472747 ..... c 31 N71-16081 *
US-PATENT-APPL-SN-472775 ..... c 35 N75-33369 *
US-PATENT-APPL-SN-473024 ..... c 62 N90-27385 * #
US-PATENT-APPL-SN-473030 ..... c 37 N90-27116 * #
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US-PATENT-APPL-SN-473242 ..... c 34 N90-26292 * #
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US-PATENT-APPL-SN-473499 ..... c 74 N86-21348 *
US-PATENT-APPL-SN-473535 ..... c 31 N71-15637 *
US-PATENT-APPL-SN-473537 ..... c 08 N71-15908 *
US-PATENT-APPL-SN-473827 ..... c 35 N86-32696 *
US-PATENT-APPL-SN-473973 ..... c 02 N77-10001 *
US-PATENT-APPL-SN-47440 ..... c 07 N73-20174 *
US-PATENT-APPL-SN-47441 ..... c 09 N70-34559 * #
US-PATENT-APPL-SN-47443 ..... c 09 N72-17152 *
US-PATENT-APPL-SN-474531 ..... c 31 N71-23009 *
US-PATENT-APPL-SN-474744 ..... c 35 N76-14431 *
US-PATENT-APPL-SN-474745 ..... c 37 N76-14463 *
US-PATENT-APPL-SN-474815 ..... c 33 N79-21264 *
US-PATENT-APPL-SN-475299 ..... c 31 N71-17679 *
US-PATENT-APPL-SN-475336 ..... c 54 N75-27758 *
US-PATENT-APPL-SN-475337 ..... c 51 N76-29891 *
US-PATENT-APPL-SN-475338 ..... c 35 N76-15431 *
US-PATENT-APPL-SN-476244 ..... c 33 N84-22885 *
US-PATENT-APPL-SN-476759 ..... c 03 N70-42073 *
US-PATENT-APPL-SN-476761 ..... c 11 N71-10748 *
US-PATENT-APPL-SN-476763 ..... c 09 N69-21313 * #
US-PATENT-APPL-SN-477333 ..... c 28 N70-41922 *
US-PATENT-APPL-SN-478129 ..... c 25 N86-27431 *
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US-PATENT-APPL-SN-478131 ..... c 26 N87-14482 *
US-PATENT-APPL-SN-478491 ..... c 14 N69-21033 * #
US-PATENT-APPL-SN-478600 ..... c 37 N76-19436 *
US-PATENT-APPL-SN-478602 ..... c 35 N75-29381 *
US-PATENT-APPL-SN-478603 ..... c 31 N76-14284 *
US-PATENT-APPL-SN-479353 ..... c 15 N71-23256 *
US-PATENT-APPL-SN-479357 ..... c 36 N77-19416 *
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US-PATENT-APPL-SN-480385 ..... c 74 N90-27487 * #
US-PATENT-APPL-SN-480449 ..... c 33 N90-27040 * #
US-PATENT-APPL-SN-480985 ..... c 18 N90-26860 * #
US-PATENT-APPL-SN-481020 ..... c 36 N83-29681 * #
US-PATENT-APPL-SN-481066 ..... c 33 N84-33660 *
US-PATENT-APPL-SN-481106 ..... c 09 N84-34448 *
US-PATENT-APPL-SN-481537 ..... c 18 N90-26861 * #
US-PATENT-APPL-SN-482104 ..... c 27 N76-22377 *
US-PATENT-APPL-SN-482105 ..... c 27 N76-23426 *
US-PATENT-APPL-SN-482307 ..... c 15 N71-21060 *
US-PATENT-APPL-SN-482311 ..... c 05 N71-22748 *
US-PATENT-APPL-SN-482313 ..... c 11 N69-24321 * #
US-PATENT-APPL-SN-482670 ..... c 14 N71-21007 *
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US-PATENT-APPL-SN-482953 ..... c 74 N76-18913 *
US-PATENT-APPL-SN-482967 ..... c 34 N76-18364 *
US-PATENT-APPL-SN-483301 ..... c 36 N77-26477 *
US-PATENT-APPL-SN-483817 ..... c 27 N79-21190 *
US-PATENT-APPL-SN-483850 ..... c 37 N76-14460 *
US-PATENT-APPL-SN-483851 ..... c 35 N76-15435 *
US-PATENT-APPL-SN-483852 ..... c 33 N75-30430 *
US-PATENT-APPL-SN-483857 ..... c 44 N76-14601 *
US-PATENT-APPL-SN-483858 ..... c 35 N76-18400 *
US-PATENT-APPL-SN-483885 ..... c 04 N71-23185 *
US-PATENT-APPL-SN-483886 ..... c 09 N71-22988 *
US-PATENT-APPL-SN-483891 ..... c 14 N69-39982 * #
US-PATENT-APPL-SN-484156 ..... c 11 N71-21475 *
US-PATENT-APPL-SN-484208 ..... c 35 N75-30502 *
US-PATENT-APPL-SN-484209 ..... c 35 N76-18403 *
US-PATENT-APPL-SN-484485 ..... c 01 N71-23497 *
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US-PATENT-APPL-SN-484490 ..... c 24 N71-20518 *
US-PATENT-APPL-SN-484745 ..... c 35 N85-20295 *
US-PATENT-APPL-SN-484855 ..... c 09 N71-19480 *
US-PATENT-APPL-SN-485058 ..... c 06 N71-23500 *
US-PATENT-APPL-SN-485656 ..... c 28 N71-10574 *
US-PATENT-APPL-SN-485957 ..... c 25 N71-21694 *
US-PATENT-APPL-SN-485958 ..... c 15 N71-24047 *
US-PATENT-APPL-SN-485960 ..... c 15 N70-42017 *
US-PATENT-APPL-SN-48621 ..... c 20 N78-32179 *
US-PATENT-APPL-SN-486458 ..... c 37 N90-26340 * #
US-PATENT-APPL-SN-486470 ..... c 44 N85-21768 *
US-PATENT-APPL-SN-486471 ..... c 33 N85-21492 *
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US-PATENT-APPL-SN-487934 ..... c 15 N71-21530 *
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US-PATENT-APPL-SN-493866 ..... c 71 N84-28568 *
US-PATENT-APPL-SN-493942 ..... c 14 N71-17659 *
US-PATENT-APPL-SN-493943 ..... c 15 N71-21529 *
US-PATENT-APPL-SN-494280 ..... c 28 N71-23061 *
US-PATENT-APPL-SN-494282 ..... c 15 N69-39735 * #
US-PATENT-APPL-SN-494283 ..... c 31 N71-24035 *
US-PATENT-APPL-SN-494287 ..... c 03 N71-22974 *
US-PATENT-APPL-SN-494739 ..... c 07 N71-26291 *
US-PATENT-APPL-SN-495021 ..... c 44 N78-13526 *
US-PATENT-APPL-SN-495022 ..... c 60 N77-12721 *
US-PATENT-APPL-SN-495380 ..... c 37 N85-29285 *
US-PATENT-APPL-SN-495380 ..... c 37 N87-22976 *
US-PATENT-APPL-SN-495381 ..... c 24 N84-22695 *
US-PATENT-APPL-SN-495381 ..... c 24 N85-21267 *
US-PATENT-APPL-SN-496205 ..... c 14 N71-22965 *
US-PATENT-APPL-SN-496779 ..... c 05 N76-29217 *
US-PATENT-APPL-SN-496167 ..... c 03 N71-10608 *
US-PATENT-APPL-SN-496168 ..... c 28 N71-21822 *
US-PATENT-APPL-SN-499122 ..... c 15 N71-24164 *
US-PATENT-APPL-SN-499126 ..... c 23 N86-19376 *
US-PATENT-APPL-SN-500044 ..... c 35 N85-21597 *
US-PATENT-APPL-SN-500046 ..... c 31 N87-16918 *
US-PATENT-APPL-SN-500435 ..... c 14 N71-21082 *
US-PATENT-APPL-SN-500446 ..... c 10 N71-23029 *
US-PATENT-APPL-SN-500651 ..... c 07 N85-35195 *
US-PATENT-APPL-SN-500979 ..... c 32 N76-18225 *
US-PATENT-APPL-SN-500980 ..... c 72 N76-15860 *
US-PATENT-APPL-SN-500981 ..... c 35 N77-10492 *
US-PATENT-APPL-SN-500982 ..... c 75 N76-17951 *
US-PATENT-APPL-SN-501011 ..... c 33 N76-18345 *
US-PATENT-APPL-SN-501012 ..... c 33 N76-14373 *
US-PATENT-APPL-SN-501060 ..... c 60 N84-28491 *
US-PATENT-APPL-SN-501892 ..... c 32 N90-27015 * #
US-PATENT-APPL-SN-501908 ..... c 51 N90-27239 * #
US-PATENT-APPL-SN-501909 ..... c 34 N90-27072 * #
US-PATENT-APPL-SN-50206 ..... c 07 N72-17109 *
US-PATENT-APPL-SN-50207 ..... c 07 N72-20141 *
US-PATENT-APPL-SN-50208 ..... c 14 N73-13418 *
US-PATENT-APPL-SN-502124 ..... c 35 N76-16393 *
US-PATENT-APPL-SN-502135 ..... c 35 N76-15433 *
US-PATENT-APPL-SN-502136 ..... c 35 N75-27331 *
US-PATENT-APPL-SN-502137 ..... c 37 N76-21554 *
US-PATENT-APPL-SN-502138 ..... c 43 N77-10584 *
US-PATENT-APPL-SN-502603 ..... c 15 N71-20739 *
US-PATENT-APPL-SN-502701 ..... c 08 N71-23295 *
US-PATENT-APPL-SN-502709 ..... c 31 N71-21881 *
US-PATENT-APPL-SN-502710 ..... c 15 N71-23048 *
US-PATENT-APPL-SN-502729 ..... c 31 N70-41871 *
US-PATENT-APPL-SN-502739 ..... c 09 N71-23311 *
US-PATENT-APPL-SN-502740 ..... c 14 N69-27485 * #
US-PATENT-APPL-SN-502743 ..... c 08 N71-19435 *
US-PATENT-APPL-SN-502746 ..... c 03 N69-39898 * #
US-PATENT-APPL-SN-502750 ..... c 09 N71-19466 *
US-PATENT-APPL-SN-502753 ..... c 07 N69-39978 * #
US-PATENT-APPL-SN-502756 ..... c 03 N71-23336 *
US-PATENT-APPL-SN-502820 ..... c 27 N85-21347 *
US-PATENT-APPL-SN-50339 ..... c 04 N72-33072 *
US-PATENT-APPL-SN-503410 ..... c 37 N90-27111 * #
US-PATENT-APPL-SN-503487 ..... c 24 N90-26880 * #
US-PATENT-APPL-SN-504225 ..... c 35 N76-16392 *
US-PATENT-APPL-SN-504266 ..... c 31 N71-21064 *
US-PATENT-APPL-SN-504345 ..... c 33 N71-22877 *
US-PATENT-APPL-SN-505320 ..... c 16 N71-18614 *
US-PATENT-APPL-SN-505321 ..... c 10 N71-22962 *
US-PATENT-APPL-SN-505765 ..... c 15 N71-23816 *
US-PATENT-APPL-SN-505819 ..... c 33 N76-16331 *
US-PATENT-APPL-SN-505881 ..... c 09 N76-24280 *
US-PATENT-APPL-SN-506135 ..... c 06 N71-20905 *
US-PATENT-APPL-SN-506137 ..... c 15 N71-23049 *
US-PATENT-APPL-SN-506137 ..... c 76 N90-26685 * #
US-PATENT-APPL-SN-506477 ..... c 33 N85-29146 *
US-PATENT-APPL-SN-506803 ..... c 24 N79-25143 *
US-PATENT-APPL-SN-506804 ..... c 35 N76-18402 *
US-PATENT-APPL-SN-506908 ..... c 09 N71-18643 *
US-PATENT-APPL-SN-507254 ..... c 14 N71-22990 *
US-PATENT-APPL-SN-507257 ..... c 09 N71-19449 *
US-PATENT-APPL-SN-507623 ..... c 31 N85-29083 *
US-PATENT-APPL-SN-507624 ..... c 76 N85-30922 *
US-PATENT-APPL-SN-507625 ..... c 76 N86-20150 *
US-PATENT-APPL-SN-507626 ..... c 34 N85-29179 *
US-PATENT-APPL-SN-508154 ..... c 54 N90-27261 * #
US-PATENT-APPL-SN-508169 ..... c 18 N71-27397 *
US-PATENT-APPL-SN-508170 ..... c 08 N71-22710 *
US-PATENT-APPL-SN-508316 ..... c 27 N90-26954 * #
US-PATENT-APPL-SN-508371 ..... c 05 N85-21147 *
US-PATENT-APPL-SN-508372 ..... c 43 N83-29783 * #
US-PATENT-APPL-SN-508386 ..... c 25 N90-26098 * #
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US-PATENT-APPL-SN-508784 ..... c 76 N76-25049 *
US-PATENT-APPL-SN-508873 ..... c 14 N71-23240 *
US-PATENT-APPL-SN-509460 ..... c 01 N71-13411 *
US-PATENT-APPL-SN-510136 ..... c 18 N84-33450 *
US-PATENT-APPL-SN-510137 ..... c 37 N85-34401 *
US-PATENT-APPL-SN-510150 ..... c 10 N71-26103 *
US-PATENT-APPL-SN-510155 ..... c 06 N71-11235 *
US-PATENT-APPL-SN-510474 ..... c 15 N71-23810 *
US-PATENT-APPL-SN-510475 ..... c 14 N71-23087 *
US-PATENT-APPL-SN-510677 ..... c 44 N77-19571 *
US-PATENT-APPL-SN-511299 ..... c 15 N71-22798 *
US-PATENT-APPL-SN-511334 ..... c 36 N77-32478 *
US-PATENT-APPL-SN-511346 ..... c 15 N77-10113 *
US-PATENT-APPL-SN-511362 ..... c 33 N85-29147 *
US-PATENT-APPL-SN-511363 ..... c 25 N88-23846 *
US-PATENT-APPL-SN-5114 ..... c 06 N72-25150 *
US-PATENT-APPL-SN-511564 ..... c 09 N69-39885 * #
US-PATENT-APPL-SN-511567 ..... c 05 N71-12336 *
US-PATENT-APPL-SN-511887 ..... c 35 N76-15436 *
US-PATENT-APPL-SN-511894 ..... c 03 N76-32140 *
US-PATENT-APPL-SN-512352 ..... c 15 N70-33330 *
US-PATENT-APPL-SN-512509 ..... c 26 N75-27125 *
US-PATENT-APPL-SN-512559 ..... c 23 N71-22881 *
US-PATENT-APPL-SN-512561 ..... c 16 N71-25914 *
US-PATENT-APPL-SN-512562 ..... c 16 N71-24074 *
US-PATENT-APPL-SN-512795 ..... c 27 N84-22745 *
US-PATENT-APPL-SN-512825 ..... c 32 N76-15329 *
US-PATENT-APPL-SN-51317 ..... c 14 N73-30389 *
US-PATENT-APPL-SN-513346 ..... c 07 N79-14095 *
US-PATENT-APPL-SN-513389 ..... c 25 N75-12087 *
US-PATENT-APPL-SN-513576 ..... c 35 N76-29552 *
US-PATENT-APPL-SN-513611 ..... c 24 N76-22309 *
US-PATENT-APPL-SN-513611 ..... c 24 N80-33482 *
US-PATENT-APPL-SN-513612 ..... c 05 N77-17029 *
US-PATENT-APPL-SN-513613 ..... c 27 N78-15276 *
US-PATENT-APPL-SN-513690 ..... c 37 N76-20480 *
US-PATENT-APPL-SN-514117 ..... c 27 N86-19455 *
US-PATENT-APPL-SN-514407 ..... c 18 N71-22894 *
US-PATENT-APPL-SN-514546 ..... c 74 N76-20958 *
US-PATENT-APPL-SN-51473 ..... c 02 N70-33266 *
US-PATENT-APPL-SN-51477 ..... c 14 N72-25412 *
US-PATENT-APPL-SN-515484 ..... c 14 N71-22993 *
US-PATENT-APPL-SN-516087 ..... c 27 N85-20125 *
US-PATENT-APPL-SN-516150 ..... c 05 N71-19440 *
US-PATENT-APPL-SN-516151 ..... c 15 N70-41679 *
US-PATENT-APPL-SN-516152 ..... c 14 N71-23225 *
US-PATENT-APPL-SN-516153 ..... c 10 N71-26783 *
US-PATENT-APPL-SN-516154 ..... c 09 N69-24330 * #
US-PATENT-APPL-SN-516155 ..... c 09 N71-23270 *
US-PATENT-APPL-SN-516158 ..... c 09 N71-19479 *
US-PATENT-APPL-SN-516159 ..... c 14 N70-41812 *
US-PATENT-APPL-SN-516160 ..... c 33 N71-16277 *
US-PATENT-APPL-SN-516162 ..... c 07 N71-26900 *
US-PATENT-APPL-SN-516217 ..... c 27 N85-21350 *
US-PATENT-APPL-SN-516217 ..... c 27 N85-21351 *
US-PATENT-APPL-SN-516217 ..... c 27 N85-21352 *
US-PATENT-APPL-SN-516217 ..... c 25 N85-28982 *
US-PATENT-APPL-SN-516217 ..... c 25 N85-30039 *
US-PATENT-APPL-SN-516573 ..... c 18 N90-26858 * #
US-PATENT-APPL-SN-516793 ..... c 16 N71-22895 *
US-PATENT-APPL-SN-516794 ..... c 14 N70-42074 *
US-PATENT-APPL-SN-516856 ..... c 18 N90-26859 * #
US-PATENT-APPL-SN-517100 ..... c 28 N70-33241 *
US-PATENT-APPL-SN-517114 ..... c 32 N90-27016 * #
US-PATENT-APPL-SN-517156 ..... c 14 N71-23093 *
US-PATENT-APPL-SN-517157 ..... c 15 N71-22722 *
US-PATENT-APPL-SN-517158 ..... c 14 N71-23401 *
US-PATENT-APPL-SN-517159 ..... c 15 N71-20740 *
US-PATENT-APPL-SN-517858 ..... c 14 N71-21006 *
US-PATENT-APPL-SN-517869 ..... c 15 N71-23050 *
US-PATENT-APPL-SN-517995 ..... c 39 N76-31562 *
US-PATENT-APPL-SN-518487 ..... c 05 N71-11190 *
US-PATENT-APPL-SN-518544 ..... c 44 N76-24696 *
US-PATENT-APPL-SN-518545 ..... c 19 N76-22284 *

US-PATENT-APPL-SN-518546 ..... c 26 N76-18257 *
US-PATENT-APPL-SN-518684 ..... c 44 N76-22657 *
US-PATENT-APPL-SN-518685 ..... c 35 N76-14429 *
US-PATENT-APPL-SN-519160 ..... c 18 N71-20742 *
US-PATENT-APPL-SN-519161 ..... c 05 N71-20718 *
US-PATENT-APPL-SN-519395 ..... c 09 N69-24317 * #
US-PATENT-APPL-SN-520838 ..... c 08 N71-18595 *
US-PATENT-APPL-SN-520839 ..... c 10 N71-19472 *
US-PATENT-APPL-SN-521006 ..... c 34 N77-10463 *
US-PATENT-APPL-SN-521601 ..... c 60 N76-14818 *
US-PATENT-APPL-SN-521602 ..... c 37 N76-18454 *
US-PATENT-APPL-SN-521603 ..... c 35 N75-29380 *
US-PATENT-APPL-SN-521620 ..... c 09 N77-10071 *
US-PATENT-APPL-SN-521753 ..... c 15 N70-41960 *
US-PATENT-APPL-SN-521754 ..... c 07 N71-22984 *
US-PATENT-APPL-SN-521755 ..... c 26 N71-28649 *
US-PATENT-APPL-SN-521816 ..... c 35 N77-19385 *
US-PATENT-APPL-SN-521817 ..... c 45 N76-21742 *
US-PATENT-APPL-SN-521994 ..... c 17 N71-23365 *
US-PATENT-APPL-SN-521996 ..... c 15 N69-27871 * #
US-PATENT-APPL-SN-521998 ..... c 07 N69-24323 * #
US-PATENT-APPL-SN-521999 ..... c 12 N71-20615 *
US-PATENT-APPL-SN-522109 ..... c 07 N78-17056 *
US-PATENT-APPL-SN-522551 ..... c 76 N76-20994 *
US-PATENT-APPL-SN-522552 ..... c 35 N76-16390 *
US-PATENT-APPL-SN-522556 ..... c 35 N76-15432 *
US-PATENT-APPL-SN-522629 ..... c 23 N90-20133 *
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US-PATENT-APPL-SN-522662B ... c 08 N85-19985 *
US-PATENT-APPL-SN-522794 ..... c 09 N71-23190 *
US-PATENT-APPL-SN-522795 ..... c 20 N71-16281 *
US-PATENT-APPL-SN-522971 ..... c 54 N76-24900 *
US-PATENT-APPL-SN-523297 ..... c 24 N85-21266 *
US-PATENT-APPL-SN-523297 ..... c 24 N85-35233 *
US-PATENT-APPL-SN-523511 ..... c 28 N71-20942 *
US-PATENT-APPL-SN-523559 ..... c 74 N85-29750 *
US-PATENT-APPL-SN-523560 ..... c 60 N86-21154 *
US-PATENT-APPL-SN-523632 ..... c 33 N78-17293 *
US-PATENT-APPL-SN-523675 ..... c 37 N90-27113 * #
US-PATENT-APPL-SN-523692 ..... c 61 N90-27341 * #
US-PATENT-APPL-SN-523991 ..... c 35 N86-20751 *
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US-PATENT-APPL-SN-524959 ..... c 76 N90-27518 * #
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US-PATENT-APPL-SN-526449 ..... c 54 N76-14804 *
US-PATENT-APPL-SN-526450 ..... c 35 N77-14409 *
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US-PATENT-APPL-SN-526741 ..... c 09 N84-12193 * #
US-PATENT-APPL-SN-526750 ..... c 71 N85-22105 *
US-PATENT-APPL-SN-526768 ..... c 25 N85-35253 *
US-PATENT-APPL-SN-526770 ..... c 35 N85-21598 *
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US-PATENT-APPL-SN-527462 ..... c 35 N90-26304 * #
US-PATENT-APPL-SN-527508 ..... c 37 N90-26342 * #
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US-PATENT-APPL-SN-527790 ..... c 33 N76-14372 *
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US-PATENT-APPL-SN-530339 ..... c 31 N86-19479 *
US-PATENT-APPL-SN-530958 ..... c 09 N71-22985 *
US-PATENT-APPL-SN-531372 ..... c 72 N90-27472 * #
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US-PATENT-APPL-SN-531572 ..... c 66 N76-19888 *
US-PATENT-APPL-SN-531575 ..... c 32 N76-31372 *
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US-PATENT-APPL-SN-535410 ..... c 37 N76-15457 *
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US-PATENT-APPL-SN-536535 ..... c 33 N76-14371 *
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US-PATENT-APPL-SN-537024 ..... c 44 N76-27664 *
US-PATENT-APPL-SN-537480 ..... c 45 N76-31714 *
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US-PATENT-APPL-SN-545229 ..... c 03 N69-21469 * #
US-PATENT-APPL-SN-545236 ..... c 31 N90-26176 * #
US-PATENT-APPL-SN-545282 ..... c 35 N76-24524 *
US-PATENT-APPL-SN-545283 ..... c 32 N77-12239 *
US-PATENT-APPL-SN-545284 ..... c 34 N76-27517 *
US-PATENT-APPL-SN-54540 ..... c 15 N72-29488 *
US-PATENT-APPL-SN-54540 ..... c 37 N74-15125 *
US-PATENT-APPL-SN-54552 ..... c 27 N70-34783 *
US-PATENT-APPL-SN-54552 ..... c 20 N77-17143 *
US-PATENT-APPL-SN-545535 ..... c 03 N69-21539 * #
US-PATENT-APPL-SN-545793 ..... c 20 N80-14188 *
US-PATENT-APPL-SN-545805 ..... c 15 N71-21744 *
US-PATENT-APPL-SN-546142 ..... c 09 N69-24329 * #
US-PATENT-APPL-SN-546148 ..... c 11 N71-22875 *
US-PATENT-APPL-SN-546149 ..... c 16 N71-24170 *
US-PATENT-APPL-SN-547072 ..... c 15 N71-24043 *
US-PATENT-APPL-SN-547072 ..... c 35 N78-32397 *
US-PATENT-APPL-SN-547175 ..... c 76 N84-12968 * #
US-PATENT-APPL-SN-547176 ..... c 37 N85-29286 *
US-PATENT-APPL-SN-547643 ..... c 33 N79-33392 *
US-PATENT-APPL-SN-547677 ..... c 10 N71-20448 *
US-PATENT-APPL-SN-548468 ..... c 37 N76-27567 *
US-PATENT-APPL-SN-548559 ..... c 44 N76-29700 *
US-PATENT-APPL-SN-548582 ..... c 39 N86-20841 *
US-PATENT-APPL-SN-548583 ..... c 27 N85-34282 *
US-PATENT-APPL-SN-548584 ..... c 24 N84-34571 *
US-PATENT-APPL-SN-548806 ..... c 14 N71-23227 *
US-PATENT-APPL-SN-549418 ..... c 36 N76-31512 *
US-PATENT-APPL-SN-549860 ..... c 03 N71-19438 *
US-PATENT-APPL-SN-550088 ..... c 07 N71-24612 *
US-PATENT-APPL-SN-550681 ..... c 02 N87-16793 *
US-PATENT-APPL-SN-551182 ..... c 03 N71-23187 *
US-PATENT-APPL-SN-551184 ..... c 37 N76-22541 *
US-PATENT-APPL-SN-551536 ..... c 04 N86-27270 *
US-PATENT-APPL-SN-551694 ..... c 31 N71-18611 *
US-PATENT-APPL-SN-551815 ..... c 02 N71-11038 *
US-PATENT-APPL-SN-551846 ..... c 03 N71-20492 *
US-PATENT-APPL-SN-551933 ..... c 33 N71-14032 *
US-PATENT-APPL-SN-551961 ..... c 15 N70-33376 *
US-PATENT-APPL-SN-552108 ..... c 07 N79-14096 *
US-PATENT-APPL-SN-552344 ..... c 09 N69-27483 * #
US-PATENT-APPL-SN-552454 ..... c 35 N76-24525 *
US-PATENT-APPL-SN-553339 ..... c 27 N86-20560 *
US-PATENT-APPL-SN-553339 ..... c 27 N87-22845 *
US-PATENT-APPL-SN-55333 ..... c 10 N73-16206 *
US-PATENT-APPL-SN-553667 ..... c 44 N76-29704 *
US-PATENT-APPL-SN-553891 ..... c 23 N71-16341 *
US-PATENT-APPL-SN-554277 ..... c 07 N71-26579 *
US-PATENT-APPL-SN-554897 ..... c 15 N71-22982 *
US-PATENT-APPL-SN-554899 ..... c 15 N70-33382 *
US-PATENT-APPL-SN-554949 ..... c 06 N71-20717 *
US-PATENT-APPL-SN-554950 ..... c 17 N71-23248 *
US-PATENT-APPL-SN-554959 ..... c 27 N79-21191 *
US-PATENT-APPL-SN-555189 ..... c 08 N71-27255 *
US-PATENT-APPL-SN-555336 ..... c 33 N76-27473 *
US-PATENT-APPL-SN-55534 ..... c 11 N72-25288 *
US-PATENT-APPL-SN-55535 ..... c 14 N73-20474 *
US-PATENT-APPL-SN-55536 ..... c 14 N72-29464 *
US-PATENT-APPL-SN-55537 ..... c 18 N72-25540 *
US-PATENT-APPL-SN-555641 ..... c 51 N76-29691 *
US-PATENT-APPL-SN-555750 ..... c 27 N79-12221 *
US-PATENT-APPL-SN-556481 ..... c 74 N86-26190 *
US-PATENT-APPL-SN-556512 ..... c 37 N86-25789 *
US-PATENT-APPL-SN-556513 ..... c 33 N85-29143 *
US-PATENT-APPL-SN-556514 ..... c 35 N86-25753 *
US-PATENT-APPL-SN-556784 ..... c 09 N71-20447 *
US-PATENT-APPL-SN-556830 ..... c 15 N71-26294 *
US-PATENT-APPL-SN-557016 ..... c 15 N71-23086 *
US-PATENT-APPL-SN-557430 ..... c 52 N77-14737 *
US-PATENT-APPL-SN-557448 ..... c 45 N76-17656 *
US-PATENT-APPL-SN-557565 ..... c 24 N77-27187 *
US-PATENT-APPL-SN-557584 ..... c 09 N71-20851 *
US-PATENT-APPL-SN-557861 ..... c 03 N71-24605 *
US-PATENT-APPL-SN-557868 ..... c 14 N70-41682 *
US-PATENT-APPL-SN-557871 ..... c 10 N71-21483 *
US-PATENT-APPL-SN-55806 ..... c 06 N72-31140 *
US-PATENT-APPL-SN-558600 ..... c 74 N77-10899 *
US-PATENT-APPL-SN-559055 ..... c 33 N71-29046 *
US-PATENT-APPL-SN-559349 ..... c 33 N71-24145 *
US-PATENT-APPL-SN-559350 ..... c 33 N71-28892 *
US-PATENT-APPL-SN-559351 ..... c 14 N69-39785 * #
US-PATENT-APPL-SN-559845 ..... c 35 N76-29551 *
US-PATENT-APPL-SN-559846 ..... c 34 N79-13289 *
US-PATENT-APPL-SN-559846 ..... c 34 N80-24573 *
US-PATENT-APPL-SN-559847 ..... c 34 N79-13288 *
US-PATENT-APPL-SN-559988 ..... c 71 N85-29693 *
US-PATENT-APPL-SN-560035 ..... c 24 N85-30027 *
US-PATENT-APPL-SN-560891 ..... c 73 N78-19920 *
US-PATENT-APPL-SN-560967 ..... c 15 N69-21922 * #
US-PATENT-APPL-SN-560968 ..... c 10 N71-24863 *
US-PATENT-APPL-SN-560969 ..... c 14 N71-15822 *
US-PATENT-APPL-SN-561020 ..... c 44 N76-23675 *
US-PATENT-APPL-SN-561223 ..... c 14 N71-20427 *
US-PATENT-APPL-SN-561369 ..... c 35 N84-33766 *
US-PATENT-APPL-SN-561429 ..... c 27 N85-21351 *
US-PATENT-APPL-SN-561431 ..... c 27 N85-21350 *
US-PATENT-APPL-SN-561432 ..... c 20 N86-26368 *
US-PATENT-APPL-SN-561433 ..... c 35 N86-20752 *
US-PATENT-APPL-SN-561434 ..... c 25 N85-30039 *
US-PATENT-APPL-SN-561435 ..... c 27 N85-21352 *
US-PATENT-APPL-SN-561764 ..... c 32 N77-10392 *
US-PATENT-APPL-SN-561956 ..... c 35 N77-17426 *
US-PATENT-APPL-SN-562443 ..... c 09 N69-39734 * #
US-PATENT-APPL-SN-562444 ..... c 14 N71-22995 *
US-PATENT-APPL-SN-562445 ..... c 14 N71-23797 *
US-PATENT-APPL-SN-562499 ..... c 32 N77-31350 *
US-PATENT-APPL-SN-562558 ..... c 31 N79-21227 *
US-PATENT-APPL-SN-562933 ..... c 10 N71-24799 *
US-PATENT-APPL-SN-562934 ..... c 09 N69-21468 * #
US-PATENT-APPL-SN-562992 ..... c 27 N78-32261 *
US-PATENT-APPL-SN-563049 ..... c 17 N76-29347 *
US-PATENT-APPL-SN-563050 ..... c 37 N76-31524 *
US-PATENT-APPL-SN-563283 ..... c 35 N76-18401 *
US-PATENT-APPL-SN-563644 ..... c 15 N71-18613 *
US-PATENT-APPL-SN-563646 ..... c 05 N71-23096 *
US-PATENT-APPL-SN-563648 ..... c 15 N71-17803 *
US-PATENT-APPL-SN-563650 ..... c 25 N69-21929 * #
US-PATENT-APPL-SN-563651 ..... c 28 N71-23293 *
US-PATENT-APPL-SN-563890 ..... c 35 N85-34373 *
US-PATENT-APPL-SN-564622 ..... c 37 N77-31497 *
US-PATENT-APPL-SN-564919 ..... c 09 N71-23316 *

US-PATENT-APPL-SN-565162 ..... c 35 N79-14348 *
US-PATENT-APPL-SN-565289 ..... c 38 N77-17495 *
US-PATENT-APPL-SN-565290 ..... c 17 N76-22245 *
US-PATENT-APPL-SN-565481 ..... c 09 N86-32447 *
US-PATENT-APPL-SN-566392 ..... c 14 N71-23175 *
US-PATENT-APPL-SN-566397 ..... c 05 N71-23161 *
US-PATENT-APPL-SN-566493 ..... c 44 N76-29701 *
US-PATENT-APPL-SN-566494 ..... c 32 N77-30309 *
US-PATENT-APPL-SN-566495 ..... c 33 N77-17351 *
US-PATENT-APPL-SN-566717 ..... c 14 N71-24233 *
US-PATENT-APPL-SN-567686 ..... c 15 N71-22994 *
US-PATENT-APPL-SN-567806 ..... c 06 N71-22975 *
US-PATENT-APPL-SN-56791 ..... c 10 N72-16172 *
US-PATENT-APPL-SN-568067 ..... c 31 N71-22968 *
US-PATENT-APPL-SN-568071 ..... c 14 N69-27461 * #
US-PATENT-APPL-SN-568160 ..... c 10 N71-18724 *
US-PATENT-APPL-SN-568346 ..... c 04 N69-27487 * #
US-PATENT-APPL-SN-568352 ..... c 09 N71-20842 *
US-PATENT-APPL-SN-568354 ..... c 14 N71-22752 *
US-PATENT-APPL-SN-568355 ..... c 32 N71-23971 *
US-PATENT-APPL-SN-568356 ..... c 14 N71-15599 *
US-PATENT-APPL-SN-568362 ..... c 03 N69-39963 * #
US-PATENT-APPL-SN-568364 ..... c 10 N71-26418 *
US-PATENT-APPL-SN-568541 ..... c 24 N77-28225 *
US-PATENT-APPL-SN-568541 ..... c 27 N81-14077 *
US-PATENT-APPL-SN-568620 ..... c 10 N71-26626 *
US-PATENT-APPL-SN-568987 ..... c 10 N71-19547 *
US-PATENT-APPL-SN-569370 ..... c 43 N84-23012 * #
US-PATENT-APPL-SN-569372 ..... c 76 N85-33826 *
US-PATENT-APPL-SN-569925 ..... c 07 N77-17059 *
US-PATENT-APPL-SN-570093 ..... c 06 N71-17705 *
US-PATENT-APPL-SN-570095 ..... c 14 N71-23226 *
US-PATENT-APPL-SN-570097 ..... c 15 N69-23185 * #
US-PATENT-APPL-SN-570678 ..... c 17 N71-25903 *
US-PATENT-APPL-SN-571458 ..... c 44 N77-10635 *
US-PATENT-APPL-SN-571459 ..... c 54 N78-14784 *
US-PATENT-APPL-SN-571613 ..... c 74 N86-20124 *
US-PATENT-APPL-SN-571614 ..... c 35 N86-20750 *
US-PATENT-APPL-SN-571615 ..... c 74 N87-14971 *
US-PATENT-APPL-SN-571616 ..... c 25 N86-19413 *
US-PATENT-APPL-SN-571617 ..... c 26 N85-35267 *
US-PATENT-APPL-SN-571621 ..... c 20 N76-22296 *
US-PATENT-APPL-SN-57252 ..... c 14 N72-25414 *
US-PATENT-APPL-SN-57253 ..... c 18 N72-25541 *
US-PATENT-APPL-SN-572990 ..... c 37 N78-16389 *
US-PATENT-APPL-SN-572991 ..... c 51 N77-22794 *
US-PATENT-APPL-SN-573029 ..... c 07 N79-14097 *
US-PATENT-APPL-SN-573162 ..... c 37 N86-27630 *
US-PATENT-APPL-SN-573432 ..... c 14 N71-23790 *
US-PATENT-APPL-SN-57399 ..... c 03 N72-20034 *
US-PATENT-APPL-SN-574208 ..... c 37 N76-29590 *
US-PATENT-APPL-SN-574218 ..... c 52 N76-29895 *
US-PATENT-APPL-SN-574219 ..... c 35 N76-31490 *
US-PATENT-APPL-SN-574280 ..... c 15 N69-21460 * #
US-PATENT-APPL-SN-574282 ..... c 15 N69-23190 * #
US-PATENT-APPL-SN-574282 ..... c 15 N71-23025 *
US-PATENT-APPL-SN-574283 ..... c 14 N69-24257 * #
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US-PATENT-APPL-SN-574290 ..... c 14 N71-20439 *
US-PATENT-APPL-SN-575291 ..... c 33 N71-29151 *
US-PATENT-APPL-SN-575475 ..... c 05 N69-23192 * #
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US-PATENT-APPL-SN-576182 ..... c 33 N71-24276 *
US-PATENT-APPL-SN-576183 ..... c 09 N71-23525 *
US-PATENT-APPL-SN-576195 ..... c 14 N71-21079 *
US-PATENT-APPL-SN-576308 ..... c 07 N85-35194 *
US-PATENT-APPL-SN-576486 ..... c 44 N76-28635 *
US-PATENT-APPL-SN-576521 ..... c 09 N71-20864 *
US-PATENT-APPL-SN-576774 ..... c 60 N77-19760 *
US-PATENT-APPL-SN-576792 ..... c 14 N71-26136 *
US-PATENT-APPL-SN-576797 ..... c 09 N69-24318 * #
US-PATENT-APPL-SN-577114 ..... c 15 N69-24320 * #
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US-PATENT-APPL-SN-577545 ..... c 08 N71-18693 *
US-PATENT-APPL-SN-577546 ..... c 31 N71-23006 *
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US-PATENT-APPL-SN-577778 ..... c 03 N71-11050 *
US-PATENT-APPL-SN-578240 ..... c 34 N77-18382 *
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US-PATENT-APPL-SN-578388 ..... c 06 N86-27280 *
US-PATENT-APPL-SN-578390 ..... c 44 N85-30475 *
US-PATENT-APPL-SN-578397 ..... c 20 N79-21124 *
US-PATENT-APPL-SN-578700 ..... c 43 N82-13465 *
US-PATENT-APPL-SN-578916 ..... c 14 N71-23036 *
US-PATENT-APPL-SN-578923 ..... c 15 N71-21403 *
US-PATENT-APPL-SN-578925 ..... c 23 N71-16355 *
US-PATENT-APPL-SN-578926 ..... c 06 N69-39936 * #
US-PATENT-APPL-SN-578928 ..... c 26 N71-21824 *
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US-PATENT-APPL-SN-578932 ..... c 08 N71-12505 *
US-PATENT-APPL-SN-579121 ..... c 15 N71-29136 *
US-PATENT-APPL-SN-579300 ..... c 20 N79-21123 *
US-PATENT-APPL-SN-579375 ..... c 07 N77-14025 *
US-PATENT-APPL-SN-579376 ..... c 20 N79-21125 *
US-PATENT-APPL-SN-579989 ..... c 34 N77-32413 *
US-PATENT-APPL-SN-580365 ..... c 15 N71-23255 *
US-PATENT-APPL-SN-580397 ..... c 37 N87-21333 *
US-PATENT-APPL-SN-580419 ..... c 34 N85-33433 *
US-PATENT-APPL-SN-580573 ..... c 44 N85-34441 *
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US-PATENT-APPL-SN-581514 ..... c 70 N75-26789 * #
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US-PATENT-APPL-SN-583485 ..... c 33 N77-28385 *
US-PATENT-APPL-SN-583486 ..... c 33 N77-26386 *
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US-PATENT-APPL-SN-584070 ..... c 09 N69-27500 * #
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US-PATENT-APPL-SN-585217 ..... c 54 N78-17677 *
US-PATENT-APPL-SN-585420 ..... c 35 N76-31489 *
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US-PATENT-APPL-SN-587749 ..... c 60 N88-29310 *
US-PATENT-APPL-SN-587764 ..... c 18 N86-24729 *
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US-PATENT-APPL-SN-588635 ..... c 21 N71-15642 *
US-PATENT-APPL-SN-588651 ..... c 31 N71-24813 *
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US-PATENT-APPL-SN-590975 ..... c 44 N78-31525 *
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US-PATENT-APPL-SN-598504 ..... c 37 N77-14477 *
US-PATENT-APPL-SN-598777 ..... c 27 N85-34281 *
US-PATENT-APPL-SN-59892 ..... c 06 N73-30097 *
US-PATENT-APPL-SN-59892 ..... c 15 N74-27380 *
US-PATENT-APPL-SN-59893 ..... c 15 N72-25456 *
US-PATENT-APPL-SN-59894 ..... c 23 N73-13662 *
US-PATENT-APPL-SN-59895 ..... c 15 N72-20445 *
US-PATENT-APPL-SN-598967 ..... c 31 N77-10229 *
US-PATENT-APPL-SN-598968 ..... c 33 N77-17354 *
US-PATENT-APPL-SN-598969 ..... c 44 N78-17480 *
US-PATENT-APPL-SN-599126 ..... c 23 N88-24692 *
US-PATENT-APPL-SN-599284 ..... c 35 N77-14411 *
US-PATENT-APPL-SN-59956 ..... c 14 N72-27411 *
US-PATENT-APPL-SN-59966 ..... c 21 N72-25595 *
US-PATENT-APPL-SN-59968 ..... c 15 N72-27484 *
US-PATENT-APPL-SN-59969 ..... c 09 N72-25249 *
US-PATENT-APPL-SN-599975 ..... c 08 N69-21928 * #
US-PATENT-APPL-SN-600266 ..... c 14 N71-20430 *
US-PATENT-APPL-SN-600682 ..... c 14 N71-20461 *
US-PATENT-APPL-SN-601130 ..... c 31 N86-21718 *
US-PATENT-APPL-SN-601228 ..... c 15 N71-17652 *
US-PATENT-APPL-SN-601229 ..... c 14 N71-26474 *
US-PATENT-APPL-SN-602049 ..... c 35 N86-32697 *
US-PATENT-APPL-SN-602617 ..... c 37 N77-23483 *
US-PATENT-APPL-SN-602618 ..... c 44 N76-31667 *
US-PATENT-APPL-SN-60276 ..... c 22 N73-32528 *
US-PATENT-APPL-SN-602828 ..... c 09 N71-13531 *
US-PATENT-APPL-SN-603374 ..... c 37 N86-19606 *
US-PATENT-APPL-SN-603396 ..... c 14 N69-23191 * #
US-PATENT-APPL-SN-603397 ..... c 26 N71-23292 *
US-PATENT-APPL-SN-604337 ..... c 27 N85-29044 *
US-PATENT-APPL-SN-604374 ..... c 44 N76-29699 *
US-PATENT-APPL-SN-605090 ..... c 15 N71-19485 *
US-PATENT-APPL-SN-605091 ..... c 15 N71-26346 *
US-PATENT-APPL-SN-605092 ..... c 05 N71-23317 *
US-PATENT-APPL-SN-605093 ..... c 17 N71-24911 *
US-PATENT-APPL-SN-605094 ..... c 09 N71-24808 *
US-PATENT-APPL-SN-605095 ..... c 10 N71-19417 *
US-PATENT-APPL-SN-605096 ..... c 15 N71-24834 *
US-PATENT-APPL-SN-605097 ..... c 14 N69-21923 * #
US-PATENT-APPL-SN-605098 ..... c 09 N71-26092 *
US-PATENT-APPL-SN-605099 ..... c 09 N71-23548 *
US-PATENT-APPL-SN-605100 ..... c 15 N71-21536 *
US-PATENT-APPL-SN-605102 ..... c 09 N69-39987 * #
US-PATENT-APPL-SN-60531 ..... c 28 N70-37980 *
US-PATENT-APPL-SN-60536 ..... c 02 N70-38009 *
US-PATENT-APPL-SN-605518 ..... c 15 N71-23023 *
US-PATENT-APPL-SN-605964 ..... c 06 N73-30103 *
US-PATENT-APPL-SN-605994 ..... c 06 N73-30101 *
US-PATENT-APPL-SN-606027 ..... c 06 N73-30099 *
US-PATENT-APPL-SN-606036 ..... c 06 N73-30100 *
US-PATENT-APPL-SN-606426 ..... c 74 N86-29650 * #
US-PATENT-APPL-SN-606431 ..... c 37 N86-25791 *
US-PATENT-APPL-SN-606432 ..... c 74 N87-21679 *
US-PATENT-APPL-SN-606462 ..... c 06 N71-24891 *
US-PATENT-APPL-SN-606463 ..... c 14 N71-24864 *
US-PATENT-APPL-SN-606464 ..... c 15 N71-18579 *
US-PATENT-APPL-SN-606891 ..... c 44 N77-14581 *
US-PATENT-APPL-SN-607461 ..... c 05 N71-12246 *
US-PATENT-APPL-SN-607484 ..... c 09 N71-26002 *
US-PATENT-APPL-SN-607608 ..... c 14 N69-27484 * #
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US-PATENT-APPL-SN-608247 ..... c 15 N71-20813 *
US-PATENT-APPL-SN-608482 ..... c 74 N77-20682 *
US-PATENT-APPL-SN-608483 ..... c 09 N77-19076 *
US-PATENT-APPL-SN-608741 ..... c 23 N85-28973 *
US-PATENT-APPL-SN-60876 ..... c 15 N72-27485 *
US-PATENT-APPL-SN-60881 ..... c 32 N72-25877 *
US-PATENT-APPL-SN-60882 ..... c 05 N73-32011 *
US-PATENT-APPL-SN-60883 ..... c 10 N73-13235 *
US-PATENT-APPL-SN-608944 ..... c 15 N71-23798 *
US-PATENT-APPL-SN-60950 ..... c 04 N73-27052 *
US-PATENT-APPL-SN-610723 ..... c 14 N71-23755 *
US-PATENT-APPL-SN-610724 ..... c 31 N71-29851 *
US-PATENT-APPL-SN-610726 ..... c 31 N71-22969 *
US-PATENT-APPL-SN-610801 ..... c 76 N77-32919 *
US-PATENT-APPL-SN-610802 ..... c 35 N77-20400 *
US-PATENT-APPL-SN-611414 ..... c 46 N74-23068 *
US-PATENT-APPL-SN-611414 ..... c 46 N74-23069 *
US-PATENT-APPL-SN-612265 ..... c 14 N72-22442 *

US-PATENT-APPL-SN-612568 ..... c 15 N71-28952 *
US-PATENT-APPL-SN-612740 ..... c 25 N71-20563 *
US-PATENT-APPL-SN-612899 ..... c 07 N77-18154 *
US-PATENT-APPL-SN-612964 ..... c 20 N77-10148 *
US-PATENT-APPL-SN-612965 ..... c 52 N77-14735 *
US-PATENT-APPL-SN-612966 ..... c 35 N78-12390 *
US-PATENT-APPL-SN-612967 ..... c 74 N77-18893 *
US-PATENT-APPL-SN-613004 ..... c 71 N77-26919 *
US-PATENT-APPL-SN-613139 ..... c 27 N86-27450 *
US-PATENT-APPL-SN-613140 ..... c 33 N86-20669 *
US-PATENT-APPL-SN-613235 ..... c 14 N73-30394 *
US-PATENT-APPL-SN-61329 ..... c 31 N70-37986 *
US-PATENT-APPL-SN-613734 ..... c 52 N77-14738 *
US-PATENT-APPL-SN-613979 ..... c 33 N71-14035 *
US-PATENT-APPL-SN-615030 ..... c 35 N78-19465 *
US-PATENT-APPL-SN-61535 ..... c 15 N72-25453 *
US-PATENT-APPL-SN-615505 ..... c 34 N85-29180 *
US-PATENT-APPL-SN-616002 ..... c 34 N86-27593 *
US-PATENT-APPL-SN-616332 ..... c 24 N77-27188 *
US-PATENT-APPL-SN-616333 ..... c 33 N76-32457 *
US-PATENT-APPL-SN-616472 ..... c 74 N77-22951 *
US-PATENT-APPL-SN-616528 ..... c 24 N80-33482 *
US-PATENT-APPL-SN-617021 ..... c 23 N71-16101 *
US-PATENT-APPL-SN-617022 ..... c 07 N69-27462 * #
US-PATENT-APPL-SN-617202 ..... c 74 N77-28933 *
US-PATENT-APPL-SN-617612 ..... c 52 N77-10780 *
US-PATENT-APPL-SN-617770 ..... c 14 N71-23267 *
US-PATENT-APPL-SN-617774 ..... c 18 N71-16124 *
US-PATENT-APPL-SN-617775 ..... c 06 N71-28807 *
US-PATENT-APPL-SN-617776 ..... c 18 N69-39895 * #
US-PATENT-APPL-SN-617778 ..... c 14 N71-26244 *
US-PATENT-APPL-SN-617779 ..... c 09 N69-39929 * #
US-PATENT-APPL-SN-617783 ..... c 15 N69-24266 * #
US-PATENT-APPL-SN-617871 ..... c 27 N85-29043 *
US-PATENT-APPL-SN-617895 ..... c 32 N77-14292 *
US-PATENT-APPL-SN-618594 ..... c 37 N77-13418 *
US-PATENT-APPL-SN-61894 ..... c 12 N72-21310 *
US-PATENT-APPL-SN-61895 ..... c 07 N72-33146 *
US-PATENT-APPL-SN-618969 ..... c 05 N71-26333 *
US-PATENT-APPL-SN-619519 ..... c 32 N71-16106 *
US-PATENT-APPL-SN-619520 ..... c 05 N69-21380 * #
US-PATENT-APPL-SN-619521 ..... c 06 N69-39889 * #
US-PATENT-APPL-SN-619903 ..... c 15 N69-27505 * #
US-PATENT-APPL-SN-619907 ..... c 09 N69-21543 * #
US-PATENT-APPL-SN-619908 ..... c 08 N71-20571 *
US-PATENT-APPL-SN-619986 ..... c 37 N75-32465 * #
US-PATENT-APPL-SN-620675 ..... c 35 N78-19466 *
US-PATENT-APPL-SN-621098 ..... c 09 N71-20446 *
US-PATENT-APPL-SN-621714 ..... c 15 N71-19569 *
US-PATENT-APPL-SN-621715 ..... c 05 N71-11207 *
US-PATENT-APPL-SN-621742 ..... c 26 N71-23968 *
US-PATENT-APPL-SN-623156 ..... c 04 N77-19056 *
US-PATENT-APPL-SN-623187 ..... c 34 N77-19353 *
US-PATENT-APPL-SN-623188 ..... c 54 N77-21844 *
US-PATENT-APPL-SN-623238 ..... c 51 N77-25769 *
US-PATENT-APPL-SN-623389 ..... c 31 N81-15154 *
US-PATENT-APPL-SN-623536 ..... c 09 N78-18083 *
US-PATENT-APPL-SN-625077 ..... c 44 N86-25874 *
US-PATENT-APPL-SN-625436 ..... c 33 N90-20320 *
US-PATENT-APPL-SN-625732 ..... c 35 N77-18417 *
US-PATENT-APPL-SN-625733 ..... c 26 N77-28265 *
US-PATENT-APPL-SN-625734 ..... c 35 N78-10428 *
US-PATENT-APPL-SN-625759 ..... c 37 N77-14478 *
US-PATENT-APPL-SN-625781 ..... c 33 N77-31404 *
US-PATENT-APPL-SN-626376 ..... c 05 N71-11189 *
US-PATENT-APPL-SN-626942 ..... c 51 N77-27677 *
US-PATENT-APPL-SN-627257 ..... c 08 N71-12504 *
US-PATENT-APPL-SN-627537 ..... c 71 N88-24241 *
US-PATENT-APPL-SN-627599 ..... c 18 N71-16046 *
US-PATENT-APPL-SN-628094 ..... c 16 N71-20400 *
US-PATENT-APPL-SN-628221 ..... c 07 N78-18066 *
US-PATENT-APPL-SN-628246 ..... c 15 N71-17687 *
US-PATENT-APPL-SN-628247 ..... c 09 N69-21542 * #
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US-PATENT-APPL-SN-629457 ..... c 35 N77-32454 *
US-PATENT-APPL-SN-629458 ..... c 35 N78-17357 *
US-PATENT-APPL-SN-629759 ..... c 15 N71-16076 *
US-PATENT-APPL-SN-630579 ..... c 35 N77-24454 *
US-PATENT-APPL-SN-630583 ..... c 33 N77-24375 *
US-PATENT-APPL-SN-631341 ..... c 60 N78-17691 *
US-PATENT-APPL-SN-63144 ..... c 16 N72-28521 *
US-PATENT-APPL-SN-631848 ..... c 09 N71-12514 *
US-PATENT-APPL-SN-63195 ..... c 14 N72-27408 *
US-PATENT-APPL-SN-632104 ..... c 09 N71-19470 *
US-PATENT-APPL-SN-632111 ..... c 37 N79-10422 *
US-PATENT-APPL-SN-632112 ..... c 35 N77-22449 *
US-PATENT-APPL-SN-632152 ..... c 10 N71-24798 *
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US-PATENT-APPL-SN-632162 ..... c 14 N69-39937 * #
US-PATENT-APPL-SN-632163 ..... c 30 N71-23723 *
US-PATENT-APPL-SN-632164 ..... c 15 N69-24319 * #
US-PATENT-APPL-SN-632165 ..... c 14 N71-26266 *
US-PATENT-APPL-SN-633178 ..... c 25 N84-32447 * #
US-PATENT-APPL-SN-633179 ..... c 34 N86-12547 *
US-PATENT-APPL-SN-633180 ..... c 09 N89-25242 *
US-PATENT-APPL-SN-633363 ..... c 25 N86-25428 *
US-PATENT-APPL-SN-63383 ..... c 08 N72-20177 *
US-PATENT-APPL-SN-63384 ..... c 05 N72-22093 *
US-PATENT-APPL-SN-633876 ..... c 27 N78-19302 *
US-PATENT-APPL-SN-633877 ..... c 27 N77-13217 *
US-PATENT-APPL-SN-634038 ..... c 25 N71-16073 *
US-PATENT-APPL-SN-634040 ..... c 15 N71-19489 *
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US-PATENT-APPL-SN-634214 ..... c 73 N78-28913 *
US-PATENT-APPL-SN-634304 ..... c 27 N79-18052 *
US-PATENT-APPL-SN-635325 ..... c 14 N69-27431 * #
US-PATENT-APPL-SN-635326 ..... c 14 N71-18482 *
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US-PATENT-APPL-SN-63532 ..... c 08 N72-25209 *
US-PATENT-APPL-SN-635519 ..... c 35 N77-24455 *
US-PATENT-APPL-SN-635531 ..... c 33 N77-14334 *
US-PATENT-APPL-SN-635970 ..... c 15 N69-21465 * #
US-PATENT-APPL-SN-635972 ..... c 18 N71-23710 *
US-PATENT-APPL-SN-63610 ..... c 06 N72-25147 *
US-PATENT-APPL-SN-636193 ..... c 74 N78-15880 *
US-PATENT-APPL-SN-636459 ..... c 44 N87-21410 *
US-PATENT-APPL-SN-636463 ..... c 20 N87-16875 *
US PATENT-APPL-SN-636465 ..... c 37 N85-29284 *
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US-PATENT-APPL-SN-636878 ..... c 14 N71-20442 *
US-PATENT-APPL-SN-637247 ..... c 35 N77-10493 *
US-PATENT-APPL-SN-637249 ..... c 38 N76-28563 *
US-PATENT-APPL-SN-637268 ..... c 47 N77-10753 *
US-PATENT-APPL-SN-637269 ..... c 52 N77-28717 *
US-PATENT-APPL-SN-637882 ..... c 15 N71-17650 *
US-PATENT-APPL-SN-638192 ..... c 10 N71-26415 *
US-PATENT-APPL-SN-638194 ..... c 33 N71-21507 *
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US-PATENT-APPL-SN-640456 ..... c 03 N71-26726 *
US-PATENT-APPL-SN-640457 ..... c 03 N71-11052 *
US-PATENT-APPL-SN-640458 ..... c 15 N71-23811 *
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US-PATENT-APPL-SN-640460 ..... c 14 N69-21541 * #
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US-PATENT-APPL-SN-640788 ..... c 15 N69-27502 * #
US-PATENT-APPL-SN-640789 ..... c 15 N69-27504 * #
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US-PATENT-APPL-SN-641146 ..... c 76 N87-13313 *
US-PATENT-APPL-SN-641147 ..... c 27 N87-23751 *
US-PATENT-APPL-SN-641152 ..... c 23 N87-28605 *
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US-PATENT-APPL-SN-641802 ..... c 34 N77-30399 *
US-PATENT-APPL-SN-641803 ..... c 35 N78-18391 *
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US-PATENT-APPL-SN-64226 ..... c 17 N70-38198 *
US-PATENT-APPL-SN-642310 ..... c 44 N86-19721 *
US-PATENT-APPL-SN-642602 ..... c 54 N86-29507 * #
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US-PATENT-APPL-SN-657997 ..... c 60 N77-32731 *
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US-PATENT-APPL-SN-6615 ..... c 03 N72-25019 *
US-PATENT-APPL-SN-6616 ..... c 03 N72-22042 *
US-PATENT-APPL-SN-6617 ..... c 15 N72-22488 *
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US-PATENT-APPL-SN-662176 ..... c 32 N77-21267 *

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US-PATENT-APPL-SN-662182 ..... c 37 N78-27424 *
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US-PATENT-APPL-SN-668969 ..... c 06 N71-19288 *
US-PATENT-APPL-SN-668971 ..... c 07 N78-33101 *
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US-PATENT-APPL-SN-677508 ..... c 16 N71-15551 *
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US-PATENT-APPL-SN-679996 ..... c 44 N82-24643 *
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US-PATENT-APPL-SN-68024 ..... c 17 N72 22535 *
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US-PATENT-APPL-SN-680939 ..... c 44 N78-10554 *
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US-PATENT-APPL-SN-683111 ..... c 33 N87-22694 *
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US-PATENT-APPL-SN-706682 ..... c 24 N86-26131 *
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US-PATENT-APPL-SN-707125 ..... c 39 N78-16387 *
US-PATENT-APPL-SN-707440 ..... c 06 N73-30102 *
US-PATENT-APPL-SN-707495 ..... c 11 N71-18773 *
US-PATENT-APPL-SN-708658 ..... c 33 N77-26385 *
US-PATENT-APPL-SN-708660 ..... c 34 N78-27357 *
US-PATENT-APPL-SN-708771 ..... c 26 N78-24333 *
US-PATENT-APPL-SN-708795 ..... c 37 N77-28487 *
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US-PATENT-APPL-SN-708800 ..... c 54 N78-17676 *
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US-PATENT-APPL-SN-709255 ..... c 37 N86-32738 *
US-PATENT-APPL-SN-709257 ..... c 32 N87-14559 *
US-PATENT-APPL-SN-709396 ..... c 06 N71-13461 *
US-PATENT-APPL-SN-709399 ..... c 16 N71-26154 *
US-PATENT-APPL-SN-709415 ..... c 44 N78-27515 *
US-PATENT-APPL-SN-709622 ..... c 33 N71-24858 *
US-PATENT-APPL-SN-70967 ..... c 07 N73-13149 *
US-PATENT-APPL-SN-70967 ..... c 32 N74-10132 *
US-PATENT-APPL-SN-709849 ..... c 52 N77-25772 *
US-PATENT-APPL-SN-710032 ..... c 54 N77-30749 *
US-PATENT-APPL-SN-710035 ..... c 44 N78-24606 *
US-PATENT-APPL-SN-710036 ..... c 44 N78-32539 *
US-PATENT-APPL-SN-71047 ..... c 09 N72-21247 *
US-PATENT-APPL-SN-71048 ..... c 18 N73-12604 *
US-PATENT-APPL-SN-710533 ..... c 02 N71-11043 *
US-PATENT-APPL-SN-710561 ..... c 09 N71-12517 *
US-PATENT-APPL-SN-710562 ..... c 31 N71-18065 *
US-PATENT-APPL-SN-710621 ..... c 06 N73-27086 *
US-PATENT-APPL-SN-710945 ..... c 33 N71-15566 *
US-PATENT-APPL-SN-710949 ..... c 12 N71-17631 *
US-PATENT-APPL-SN-711696 ..... c 18 N71-24934 *
US-PATENT-APPL-SN-711903 ..... c 18 N71-26772 *
US-PATENT-APPL-SN-711921 ..... c 18 N71-16105 *
US-PATENT-APPL-SN-711970 ..... c 09 N71-18830 *
US-PATENT-APPL-SN-711971 ..... c 09 N71-23596 *
US-PATENT-APPL-SN-711972 ..... c 06 N71-24607 *
US-PATENT-APPL-SN-712065 ..... c 06 N71-12503 *
US-PATENT-APPL-SN-712099 ..... c 23 N71-24868 *
US-PATENT-APPL-SN-712270 ..... c 52 N79-27836 *
US-PATENT-APPL-SN-712419 ..... c 35 N78-14364 *
US-PATENT-APPL-SN-712658 ..... c 07 N71-19773 *
US-PATENT-APPL-SN-712981 ..... c 31 N78-25256 *
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US-PATENT-APPL-SN-713449 ..... c 74 N87-25843 *
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US-PATENT-APPL-SN-714158 ..... c 33 N78-13320 *
US-PATENT-APPL-SN-714296 ..... c 14 N71-15604 *
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US-PATENT-APPL-SN-715485 ..... c 74 N78-14889 *
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US-PATENT-APPL-SN-716163 ..... c 15 N71-18132 *
US-PATENT-APPL-SN-716734 ..... c 15 N71-17626 *
US-PATENT-APPL-SN-716795 ..... c 14 N71-20435 *
US-PATENT-APPL-SN-716885 ..... c 74 N78-33913 *
US-PATENT-APPL-SN-717052 ..... c 14 N71-17626 *
US-PATENT-APPL-SN-717319 ..... c 44 N77-31601 *
US-PATENT-APPL-SN-717320 ..... c 44 N78-15560 *
US-PATENT-APPL-SN-717822 ..... c 09 N71-25866 *
US-PATENT-APPL-SN-718095 ..... c 26 N70-39899 *
US-PATENT-APPL-SN-718137 ..... c 44 N78-31527 *
US-PATENT-APPL-SN-718244 ..... c 05 N78-32086 *
US-PATENT-APPL-SN-718266 ..... c 74 N78-17867 *
US-PATENT-APPL-SN-718267 ..... c 26 N77-29260 *
US-PATENT-APPL-SN-718268 ..... c 44 N78-33526 *
US-PATENT-APPL-SN-718279 ..... c 15 N71-26312 *
US-PATENT-APPL-SN-718689 ..... c 14 N71-17655 *
US-PATENT-APPL-SN-718752 ..... c 03 N71-18698 *
US-PATENT-APPL-SN-718769 ..... c 14 N71-17662 *
US-PATENT-APPL-SN-719029 ..... c 14 N71-27186 *
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US-PATENT-APPL-SN-719794 ..... c 35 N86-32695 * #
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US-PATENT-APPL-SN-719798 ..... c 76 N85-30934 * #
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US-PATENT-APPL-SN-719870 ..... c 07 N71-26292 *
US-PATENT-APPL-SN-720041 ..... c 05 N71-27234 *
US-PATENT-APPL-SN-720125 ..... c 09 N71-12539 *
US-PATENT-APPL-SN-72024 ..... c 09 N73-12211 *
US-PATENT-APPL-SN-720521 ..... c 44 N78-25530 *
US-PATENT-APPL-SN-720546 ..... c 18 N72-17532 *
US-PATENT-APPL-SN-721150 ..... c 37 N78-17383 *
US-PATENT-APPL-SN-721607 ..... c 18 N71-25881 *
US-PATENT-APPL-SN-723264 ..... c 24 N78-10214 *
US-PATENT-APPL-SN-723264 ..... c 24 N78-17149 *
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US-PATENT-APPL-SN-723465 ..... c 37 N74-15125 *
US-PATENT-APPL-SN-723476 ..... c 05 N71-12341 *
US-PATENT-APPL-SN-723488 ..... c 09 N71-28691 *
US-PATENT-APPL-SN-723804 ..... c 09 N71-24806 *
US-PATENT-APPL-SN-723805 ..... c 10 N71-26339 *
US-PATENT-APPL-SN-723827 ..... c 10 N71-27137 *
US-PATENT-APPL-SN-724551 ..... c 15 N71-17696 *
US-PATENT-APPL-SN-724874 ..... c 76 N78-24950 *
US-PATENT-APPL-SN-725405 ..... c 15 N71-26134 *
US-PATENT-APPL-SN-725432 ..... c 07 N71-24622 *
US-PATENT-APPL-SN-725475 ..... c 31 N71-15643 *
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US-PATENT-APPL-SN-725689 ..... c 37 N87-17037 *
US-PATENT-APPL-SN-725714 ..... c 33 N89-14364 *
US-PATENT-APPL-SN-725719 ..... c 15 N71-26243 *
US-PATENT-APPL-SN-725725 ..... c 27 N87-18908 *
US-PATENT-APPL-SN-725727 ..... c 27 N87-22845 *
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US-PATENT-APPL-SN-727034 ..... c 35 N87-14669 *
US-PATENT-APPL-SN-727035 ..... c 33 N86-32624 *
US-PATENT-APPL-SN-727444 ..... c 31 N81-15154 *
US-PATENT-APPL-SN-727480 ..... c 14 N71-17658 *
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US-PATENT-APPL-SN-728369 ..... c 52 N76-33835 * #
US-PATENT-APPL-SN-729299 ..... c 03 N72-15986 *
US-PATENT-APPL-SN-729704 ..... c 37 N87-23983 *
US-PATENT-APPL-SN-729719 ..... c 32 N87-25511 *
US-PATENT-APPL-SN-729766 ..... c 09 N87-14355 *
US-PATENT-APPL-SN-729767 ..... c 24 N87-27742 * #
US-PATENT-APPL-SN-729768 ..... c 72 N87-21660 *
US-PATENT-APPL-SN-730045 ..... c 32 N78-24391 *
US-PATENT-APPL-SN-730046 ..... c 35 N78-32396 *
US-PATENT-APPL-SN-730162 ..... c 09 N71-18599 *
US-PATENT-APPL-SN-730466 ..... c 25 N79-11152 *
US-PATENT-APPL-SN-730700 ..... c 07 N71-24583 *
US-PATENT-APPL-SN-730701 ..... c 12 N71-18615 *
US-PATENT-APPL-SN-730702 ..... c 33 N71-16356 *
US-PATENT-APPL-SN-730703 ..... c 10 N71-13537 *
US-PATENT-APPL-SN-730733 ..... c 28 N71-18224 *
US-PATENT-APPL-SN-730734 ..... c 15 N71-17654 *
US-PATENT-APPL-SN-730778 ..... c 32 N79-10264 *
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US-PATENT-APPL-SN-732321 ..... c 33 N87-25832 *
US-PATENT-APPL-SN-732455 ..... c 22 N71-28759 *
US-PATENT-APPL-SN-732630 ..... c 36 N78-14380 *
US-PATENT-APPL-SN-73283 ..... c 15 N72-28495 *
US-PATENT-APPL-SN-732917 ..... c 14 N71-17575 *
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US-PATENT-APPL-SN-732922 ..... c 17 N71-28747 *
US-PATENT-APPL-SN-733039 ..... c 07 N72-12081 *
US-PATENT-APPL-SN-73310 ..... c 09 N72-25247 *
US-PATENT-APPL-SN-73367 ..... c 14 N71-15969 *
US-PATENT-APPL-SN-733625 ..... c 31 N79-11246 *
US-PATENT-APPL-SN-73422 ..... c 15 N72-25454 *
US-PATENT-APPL-SN-734366 ..... c 27 N87-22847 *
US-PATENT-APPL-SN-734805 ..... c 14 N70-34816 *
US-PATENT-APPL-SN-734901 ..... c 27 N78-17205 *
US-PATENT-APPL-SN-734902 ..... c 24 N78-14096 *
US-PATENT-APPL-SN-735911 ..... c 14 N70-41946 *
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US-PATENT-APPL-SN-736848 ..... c 23 N71-16212 *
US-PATENT-APPL-SN-736909 ..... c 37 N79-11404 *
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US-PATENT-APPL-SN-737018 ..... c 37 N86-20801 * #
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US-PATENT-APPL-SN-737975 ..... c 32 N84-27952 *
US-PATENT-APPL-SN-738119 ..... c 18 N71-15545 *
US-PATENT-APPL-SN-738218 ..... c 37 N78-27425 *
US-PATENT-APPL-SN-738314 ..... c 12 N71-17573 *
US-PATENT-APPL-SN-738315 ..... c 14 N71-27334 *
US-PATENT-APPL-SN-738315 ..... c 14 N72-31446 *
US-PATENT-APPL-SN-73834 ..... c 15 N72-23497 *
US-PATENT-APPL-SN-738931 ..... c 35 N86-20756 * #
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US-PATENT-APPL-SN-73922 ..... c 14 N73-25461 *
US-PATENT-APPL-SN-73932 ..... c 15 N72-22485 *
US-PATENT-APPL-SN-739391 ..... c 09 N72-17156 *
US-PATENT-APPL-SN-739760 ..... c 27 N86-31726 * #
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US-PATENT-APPL-SN-739909 ..... c 37 N78-24545 *
US-PATENT-APPL-SN-739914 ..... c 33 N78-10375 *
US-PATENT-APPL-SN-739915 ..... c 37 N78-24544 *
US-PATENT-APPL-SN-739927 ..... c 32 N71-16103 *
US-PATENT-APPL-SN-740153 ..... c 28 N79-11231 *
US-PATENT-APPL-SN-740155 ..... c 74 N78-27904 *
US-PATENT-APPL-SN-740156 ..... c 71 N78-14867 *
US-PATENT-APPL-SN-740457 ..... c 35 N78-32395 *
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US-PATENT-APPL-SN-741405 ..... c 23 N86-21582 *
US-PATENT-APPL-SN-741461 ..... c 12 N71-18603 *
US-PATENT-APPL-SN-741749 ..... c 52 N79-14751 *
US-PATENT-APPL-SN-741824 ..... c 07 N71-12389 *
US-PATENT-APPL-SN-742034 ..... c 33 N78-10377 *
US-PATENT-APPL-SN-742816 ..... c 14 N71-17856 *
US-PATENT-APPL-SN-743249 ..... c 35 N77-32456 *
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US-PATENT-APPL-SN-744477 ..... c 33 N78-25319 *
US-PATENT-APPL-SN-744522 ..... c 33 N77-21314 *
US-PATENT-APPL-SN-744573 ..... c 44 N78-25531 *
US-PATENT-APPL-SN-744574 ..... c 25 N78-14104 *
US-PATENT-APPL-SN-744577 ..... c 35 N79-10391 *
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US-PATENT-APPL-SN-745766 ..... c 37 N79-11403 *
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US-PATENT-APPL-SN-746579 ..... c 33 N81-27397 *
US-PATENT-APPL-SN-746580 ..... c 34 N78-17335 *
US-PATENT-APPL-SN-746809 ..... c 35 N87-22953 *
US-PATENT-APPL-SN-74759 ..... c 14 N73-20478 *
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US-PATENT-APPL-SN-749181 ..... c 09 N71-24803 *
US-PATENT-APPL-SN-749320 ..... c 14 N72-22443 *
US-PATENT-APPL-SN-749420 ..... c 04 N82-16059 *
US-PATENT-APPL-SN-749548 ..... c 10 N71-33129 *
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US-PATENT-APPL-SN-764245 ..... c 24 N80-33482 *
US-PATENT-APPL-SN-764252 ..... c 14 N71-25901 *
US-PATENT-APPL-SN-764470 ..... c 16 N71-28554 *
US-PATENT-APPL-SN-764805 ..... c 37 N87-17036 *
US-PATENT-APPL-SN-764812 ..... c 10 N71-19468 *
US-PATENT-APPL-SN-764812 ..... c 76 N88-24543 *
US-PATENT-APPL-SN-764823 ..... c 33 N78-17296 *
US-PATENT-APPL-SN-765123 ..... c 31 N71-15687 *
US-PATENT-APPL-SN-765138 ..... c 44 N79-10513 *
US-PATENT-APPL-SN-765139 ..... c 44 N78-31526 *
US-PATENT-APPL-SN-765165 ..... c 32 N79-11264 *
US-PATENT-APPL-SN-765167 ..... c 32 N79-10263 *
US-PATENT-APPL-SN-765264 ..... c 02 N71-29128 *
US-PATENT-APPL-SN-765738 ..... c 03 N71-11057 *
US-PATENT-APPL-SN-765978 ..... c 37 N87-21334 *
US-PATENT-APPL-SN-765979 ..... c 89 N86-22459 * #
US-PATENT-APPL-SN-765980 ..... c 27 N86-27451 *
US-PATENT-APPL-SN-765981 ..... c 74 N87-28416 *
US-PATENT-APPL-SN-765991 ..... c 35 N86-26598 * #
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US-PATENT-APPL-SN-766244 ..... c 15 N71-26721 *
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US-PATENT-APPL-SN-766697 ..... c 09 N71-33519 *
US-PATENT-APPL-SN-7668 ..... c 15 N71-26611 *
US-PATENT-APPL-SN-766999 ..... c 33 N80-23559 *
US-PATENT-APPL-SN-7669 ..... c 31 N72-18859 *
US-PATENT-APPL-SN-767741 ..... c 09 N72-27228 *
US-PATENT-APPL-SN-767911 ..... c 09 N78-31129 *
US-PATENT-APPL-SN-767912 ..... c 27 N79-14214 *
US-PATENT-APPL-SN-768336 ..... c 15 N71-17648 *
US-PATENT-APPL-SN-768470 ..... c 09 N71-28421 *
US-PATENT-APPL-SN-768473 ..... c 14 N71-17657 *
US-PATENT-APPL-SN-768662 ..... c 07 N73-25160 *
US-PATENT-APPL-SN-768795 ..... c 33 N79-10339 *
US-PATENT-APPL-SN-768942 ..... c 46 N74-23068 *
US-PATENT-APPL-SN-76890 ..... c 09 N72-22201 *
US-PATENT-APPL-SN-769148 ..... c 52 N79-10724 *
US-PATENT-APPL-SN-769149 ..... c 33 N78-32339 *
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US-PATENT-APPL-SN-769665 ..... c 15 N72-11387 *
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US-PATENT-APPL-SN-770203 ..... c 05 N71-11195 *
US-PATENT-APPL-SN-770209 ..... c 08 N71-27057 *
US-PATENT-APPL-SN-770371 ..... c 15 N71-24599 *
US-PATENT-APPL-SN-770398 ..... c 06 N71-27254 *
US-PATENT-APPL-SN-770398 ..... c 06 N72-27144 *
US-PATENT-APPL-SN-770417 ..... c 06 N73-33076 *
US-PATENT-APPL-SN-770425 ..... c 06 N72-20121 *
US-PATENT-APPL-SN-770669 ..... c 44 N78-25527 *
US-PATENT-APPL-SN-770920 ..... c 37 N86-32736 * #
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US-PATENT-APPL-SN-771245 ..... c 27 N81-14076 *
US-PATENT-APPL-SN-771523 ..... c 10 N71-18772 *
US-PATENT-APPL-SN-771530 ..... c 09 N72-12136 *
US-PATENT-APPL-SN-771537 ..... c 37 N87-23961 *
US-PATENT-APPL-SN-771538 ..... c 24 N86-25416 *
US-PATENT-APPL-SN-77169 ..... c 14 N72-21408 *
US-PATENT-APPL-SN-771759 ..... c 09 N71-29008 *
US-PATENT-APPL-SN-771760 ..... c 10 N71-25917 *
US-PATENT-APPL-SN-771803 ..... c 07 N71-12391 *
US-PATENT-APPL-SN-771937 ..... c 10 N71-24862 *
US-PATENT-APPL-SN-772006 ..... c 17 N71-33408 *
US-PATENT-APPL-SN-772165 ..... c 74 N79-13855 *
US-PATENT-APPL-SN-772167 ..... c 25 N79-22235 *
US-PATENT-APPL-SN-772168 ..... c 37 N79-20377 *
US-PATENT-APPL-SN-77220 ..... c 14 N72-27409 *
US-PATENT-APPL-SN-77221 ..... c 08 N72-25210 *
US-PATENT-APPL-SN-772434 ..... c 52 N80-14687 *
US-PATENT-APPL-SN-77251 ..... c 25 N70-41626 *
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US-PATENT-APPL-SN-77256 ..... c 15 N70-33323 *
US-PATENT-APPL-SN-773029 ..... c 09 N71-24893 *
US-PATENT-APPL-SN-773072 ..... c 10 N72-28241 *
US-PATENT-APPL-SN-773530 ..... c 25 N75-29192 *
US-PATENT-APPL-SN-774151 ..... c 15 N71-17692 *
US-PATENT-APPL-SN-774265 ..... c 10 N71-27365 *
US-PATENT-APPL-SN-774266 ..... c 15 N71-26185 *
US-PATENT-APPL-SN-774384 ..... c 32 N79-10262 *
US-PATENT-APPL-SN-774691 ..... c 10 N72-31273 *
US-PATENT-APPL-SN-774733 ..... c 14 N72-24477 *
US-PATENT-APPL-SN-775072 ..... c 16 N71-24831 *
US-PATENT-APPL-SN-775239 ..... c 37 N79-14382 *
US-PATENT-APPL-SN-775548 ..... c 33 N87-21233 *
US-PATENT-APPL-SN-775870 ..... c 09 N71-24800 *
US-PATENT-APPL-SN-775870 ..... c 09 N72-22196 *
US-PATENT-APPL-SN-775877 ..... c 02 N71-11039 *
US-PATENT-APPL-SN-775965 ..... c 02 N71-11037 *
US-PATENT-APPL-SN-775968 ..... c 31 N87-21160 *
US-PATENT-APPL-SN-775989 ..... c 71 N87-21653 *
US-PATENT-APPL-SN-775990 ..... c 17 N87-25348 *
US-PATENT-APPL-SN-776029 ..... c 07 N79-10057 *
US-PATENT-APPL-SN-776146 ..... c 44 N79-17313 *
US-PATENT-APPL-SN-776146 ..... c 25 N82-21268 *
US-PATENT-APPL-SN-776185 ..... c 03 N72-22041 *
US-PATENT-APPL-SN-777764 ..... c 15 N71-27214 *
US-PATENT-APPL-SN-777765 ..... c 15 N71-29018 *
US-PATENT-APPL-SN-777765 ..... c 14 N73-28487 *
US-PATENT-APPL-SN-777766 ..... c 31 N71-16221 *
US-PATENT-APPL-SN-777818 ..... c 09 N71-27364 *
US-PATENT-APPL-SN-77786 ..... c 14 N72-27412 *
US-PATENT-APPL-SN-777983 ..... c 32 N79-24210 *
US-PATENT-APPL-SN-778195 ..... c 24 N79-16915 *
US-PATENT-APPL-SN-77869 ..... c 37 N79-21345 *
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US-PATENT-APPL-SN-779025 ..... c 09 N72-23171 *
US-PATENT-APPL-SN-779160 ..... c 14 N72-16282 *
US-PATENT-APPL-SN-779169 ..... c 09 N71-28618 *
US-PATENT-APPL-SN-779415 ..... c 60 N79-20751 *
US-PATENT-APPL-SN-779428 ..... c 34 N78-25351 *
US-PATENT-APPL-SN-779429 ..... c 08 N79-14108 *
US-PATENT-APPL-SN-779744 ..... c 74 N87-23259 *
US-PATENT-APPL-SN-779847 ..... c 15 N71-27091 *
US-PATENT-APPL-SN-779871 ..... c 33 N79-20314 *
US-PATENT-APPL-SN-779883 ..... c 27 N79-18052 *
US-PATENT-APPL-SN-780064 ..... c 15 N71-27372 *
US-PATENT-APPL-SN-780065 ..... c 12 N71-28741 *
US-PATENT-APPL-SN-780569 ..... c 54 N78-31736 *
US-PATENT-APPL-SN-78065 ..... c 08 N72-22162 *
US-PATENT-APPL-SN-780728 ..... c 32 N78-31321 *
US-PATENT-APPL-SN-780729 ..... c 33 N79-22373 *
US-PATENT-APPL-SN-780873 ..... c 32 N81-27341 *
US-PATENT-APPL-SN-780874 ..... c 35 N78-28411 *
US-PATENT-APPL-SN-780938 ..... c 54 N80-10799 *
US-PATENT-APPL-SN-781612 ..... c 36 N87-23960 *
US-PATENT-APPL-SN-781813 ..... c 27 N87-14516 *
US-PATENT-APPL-SN-782462 ..... c 33 N79-17133 *
US-PATENT-APPL-SN-782463 ..... c 72 N79-13826 *
US-PATENT-APPL-SN-782464 ..... c 32 N79-14267 *
US-PATENT-APPL-SN-782480 ..... c 33 N78-32340 *
US-PATENT-APPL-SN-782481 ..... c 44 N78-32542 *
US-PATENT-APPL-SN-782482 ..... c 33 N79-11315 *
US-PATENT-APPL-SN-782544 ..... c 14 N71-27325 *
US-PATENT-APPL-SN-782693 ..... c 33 N79-10337 *
US-PATENT-APPL-SN-782955 ..... c 07 N71-33108 *
US-PATENT-APPL-SN-782956 ..... c 10 N71-25865 *
US-PATENT-APPL-SN-783374 ..... c 15 N71-27147 *
US-PATENT-APPL-SN-783375 ..... c 07 N71-24621 *
US-PATENT-APPL-SN-783377 ..... c 05 N71-26619 *
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US-PATENT-APPL-SN-783686 ..... c 37 N87-17035 *
US-PATENT-APPL-SN-783867 ..... c 36 N87-25567 *
US-PATENT-APPL-SN-783868 ..... c 37 N87-25582 *
US-PATENT-APPL-SN-783890 ..... c 74 N87-17493 *
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US-PATENT-APPL-SN-784055 ..... c 15 N72-11390 *
US-PATENT-APPL-SN-784521 ..... c 14 N71-15620 *
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US-PATENT-APPL-SN-785257 ..... c 44 N79-14526 *
US-PATENT-APPL-SN-785279 ..... c 27 N81-14077 *
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US-PATENT-APPL-SN-785595 ..... c 10 N71-24861 *
US-PATENT-APPL-SN-785611 ..... c 15 N71-24800 *
US-PATENT-APPL-SN-785613 ..... c 05 N72-25119 *
US-PATENT-APPL-SN-785615 ..... c 05 N72-20098 *
US-PATENT-APPL-SN-785620 ..... c 21 N71-27324 *
US-PATENT-APPL-SN-785710 ..... c 05 N71-24730 *
US-PATENT-APPL-SN-785780 ..... c 18 N71-28729 *
US-PATENT-APPL-SN-786322 ..... c 32 N79-20296 *
US-PATENT-APPL-SN-7867 ..... c 14 N72-17324 *
US-PATENT-APPL-SN-7868 ..... c 10 N72-17173 *
US-PATENT-APPL-SN-786913 ..... c 27 N79-12221 *
US-PATENT-APPL-SN-78703 ..... c 15 N73-20514 *
US-PATENT-APPL-SN-78704 ..... c 05 N72-25121 *
US-PATENT-APPL-SN-78717 ..... c 05 N73-13114 *
US-PATENT-APPL-SN-787393 ..... c 23 N71-26206 *
US-PATENT-APPL-SN-787410 ..... c 15 N71-19213 *
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US-PATENT-APPL-SN-787846 ..... c 23 N71-33229 *
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US-PATENT-APPL-SN-789045 ..... c 15 N72-22489 *
US-PATENT-APPL-SN-789266 ..... c 71 N88-24241 *
US-PATENT-APPL-SN-789279 ..... c 15 N71-24694 *
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US-PATENT-APPL-SN-790594 ..... c 36 N87-23961 *
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US-PATENT-APPL-SN-791888 ..... c 23 N71-24725 *
US-PATENT-APPL-SN-792067 ..... c 24 N78-17150 *
US-PATENT-APPL-SN-792068 ..... c 51 N79-10693 *
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US-PATENT-APPL-SN-792623 ..... c 14 N72-23457 *
US-PATENT-APPL-SN-793006 ..... c 52 N86-19865 * #
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US-PATENT-APPL-SN-795217 ..... c 33 N71-25351 *
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US-PATENT-APPL-SN-800204 ..... c 06 N72-17094 *
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US-PATENT-APPL-SN-805010 ..... c 35 N87-23944 *
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US-PATENT-APPL-SN-816733 ..... c 15 N71-27084 *
US-PATENT-APPL-SN-816988 ..... c 14 N71-26199 *
US-PATENT-APPL-SN-817413 ..... c 33 N79-12321 *
US-PATENT-APPL-SN-817415 ..... c 74 N79-20857 *
US-PATENT-APPL-SN-817481 ..... c 09 N72-11225 *
US-PATENT-APPL-SN-817482 ..... c 10 N71-27338 *
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US-PATENT-APPL-SN-818917 ..... c 32 N79-13214 *
US-PATENT-APPL-SN-819029 ..... c 20 N82-18314 *
US-PATENT-APPL-SN-819599 ..... c 15 N71-19214 *
US-PATENT-APPL-SN-819898 ..... c 30 N72-17873 *
US-PATENT-APPL-SN-8203 ..... c 15 N70-33180 *
US-PATENT-APPL-SN-820453 ..... c 03 N72-24037 *
US-PATENT-APPL-SN-820498 ..... c 89 N79-10969 *
US-PATENT-APPL-SN-820499 ..... c 76 N79-23798 *
US-PATENT-APPL-SN-8204 ..... c 31 N70-37981 *
US-PATENT-APPL-SN-820963 ..... c 07 N71-19854 *
US-PATENT-APPL-SN-820964 ..... c 15 N71-28740 *
US-PATENT-APPL-SN-820965 ..... c 09 N71-13486 *
US-PATENT-APPL-SN-821586 ..... c 26 N71-14354 *
US-PATENT-APPL-SN-821681 ..... c 35 N78-27384 *
US-PATENT-APPL-SN-822039 ..... c 06 N72-25149 *
US-PATENT-APPL-SN-822088 ..... c 15 N71-27135 *
US-PATENT-APPL-SN-822089 ..... c 23 N72-23695 *
US-PATENT-APPL-SN-822090 ..... c 16 N71-27183 *
US-PATENT-APPL-SN-822518 ..... c 09 N71-13522 *
US-PATENT-APPL-SN-822519 ..... c 14 N71-28992 *
US-PATENT-APPL-SN-822534 ..... c 09 N72-11224 *
US-PATENT-APPL-SN-82279 ..... c 03 N76-32140 *
US-PATENT-APPL-SN-82280 ..... c 09 N72-25262 *
US-PATENT-APPL-SN-823061 ..... c 44 N79-23481 *
US-PATENT-APPL-SN-823566 ..... c 74 N79-14891 *
US-PATENT-APPL-SN-823712 ..... c 44 N88-14492 *
US-PATENT-APPL-SN-823713 ..... c 26 N88-14179 *
US-PATENT-APPL-SN-824024 ..... c 44 N79-18443 *
US-PATENT-APPL-SN-824042 ..... c 23 N71-29123 *
US-PATENT-APPL-SN-824628 ..... c 34 N78-17337 *
US-PATENT-APPL-SN-824755 ..... c 09 N70-33182 *
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US-PATENT-APPL-SN-825259 ..... c 14 N71-26788 *
US-PATENT-APPL-SN-825489 ..... c 27 N81-15104 *
US-PATENT-APPL-SN-826202 ..... c 37 N79-28551 *
US-PATENT-APPL-SN-826204 ..... c 37 N79-10420 *
US-PATENT-APPL-SN-826326 ..... c 46 N79-22679 *
US-PATENT-APPL-SN-82647 ..... c 28 N72-22772 *
US-PATENT-APPL-SN-82648 ..... c 12 N72-25292 *
US-PATENT-APPL-SN-82649 ..... c 06 N73-30135 *
US-PATENT-APPL-SN-82658 ..... c 30 N70-40309 *
US-PATENT-APPL-SN-827185 ..... c 52 N89-16256 *
US-PATENT-APPL-SN-827464 ..... c 74 N79-34011 *
US-PATENT-APPL-SN-827579 ..... c 15 N71-24984 *
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US-PATENT-APPL-SN-828921 ..... c 09 N71-27001 *
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US-PATENT-APPL-SN-828984 ..... c 08 N71-29033 *
US-PATENT-APPL-SN-829042 ..... c 35 N89-14407 *
US-PATENT-APPL-SN-829314 ..... c 09 N79-31228 *
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US-PATENT-APPL-SN-829316 ..... c 18 N79-11108 *
US-PATENT-APPL-SN-829317 ..... c 52 N80-18690 *
US-PATENT-APPL-SN-829318 ..... c 52 N80-14684 *
US-PATENT-APPL-SN-829390 ..... c 44 N79-11469 *
US-PATENT-APPL-SN-829390 ..... c 44 N80-16452 *
US-PATENT-APPL-SN-829625 ..... c 03 N71-24681 *
US-PATENT-APPL-SN-830272 ..... c 33 N81-29342 *
US-PATENT-APPL-SN-830366 ..... c 16 N72-13437 *
US-PATENT-APPL-SN-830458 ..... c 46 N79-23555 *
US-PATENT-APPL-SN-830562 ..... c 39 N80-10507 *
US-PATENT-APPL-SN-830715 ..... c 15 N71-24903 *
US-PATENT-APPL-SN-830846 ..... c 31 N80-32584 *
US-PATENT-APPL-SN-830978 ..... c 28 N71-26173 *
US-PATENT-APPL-SN-831118 ..... c 06 N72-11172 *
US-PATENT-APPL-SN-831193 ..... c 32 N88-26568 *
US-PATENT-APPL-SN-831371 ..... c 31 N87-25492 *
US-PATENT-APPL-SN-831372 ..... c 35 N88-30108 *
US-PATENT-APPL-SN-831377 ..... c 37 N87-23982 *
US-PATENT-APPL-SN-831631 ..... c 32 N79-20297 *
US-PATENT-APPL-SN-831632 ..... c 07 N80-26298 *
US-PATENT-APPL-SN-831633 ..... c 05 N80-14107 *
US-PATENT-APPL-SN-831634 ..... c 05 N79-12061 *
US-PATENT-APPL-SN-832296 ..... c 26 N87-28647 *
US-PATENT-APPL-SN-832603 ..... c 09 N72-22199 *
US-PATENT-APPL-SN-833049 ..... c 06 N72-21094 *
US-PATENT-APPL-SN-833637 ..... c 33 N79-24257 *
US-PATENT-APPL-SN-834257 ..... c 32 N80-14281 *
US-PATENT-APPL-SN-834977 ..... c 27 N87-23736 *
US-PATENT-APPL-SN-834978 ..... c 27 N86-24841 * #
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US-PATENT-APPL-SN-835059 ..... c 09 N71-26133 *
US-PATENT-APPL-SN-835060 ..... c 02 N71-26110 *
US-PATENT-APPL-SN-835146 ..... c 15 N70-33264 *
US-PATENT-APPL-SN-835152 ..... c 26 N70-38199 *
US-PATENT-APPL-SN-835153 ..... c 31 N71-17660 *
US-PATENT-APPL-SN-835419 ..... c 33 N80-18285 *
US-PATENT-APPL-SN-835544 ..... c 33 N79-14305 *
US-PATENT-APPL-SN-835628 ..... c 35 N79-14347 *
US-PATENT-APPL-SN-836280 ..... c 14 N73-14428 *
US-PATENT-APPL-SN-836280 ..... c 35 N75-25122 *
US-PATENT-APPL-SN-836367 ..... c 09 N71-24804 *
US-PATENT-APPL-SN-837259 ..... c 54 N79-24652 *
US-PATENT-APPL-SN-837260 ..... c 37 N78-27423 *
US-PATENT-APPL-SN-837377 ..... c 15 N71-26146 *
US-PATENT-APPL-SN-837378 ..... c 15 N71-24865 *
US-PATENT-APPL-SN-837513 ..... c 44 N81-29525 *
US-PATENT-APPL-SN-837513 ..... c 44 N82-28780 *
US-PATENT-APPL-SN-837794 ..... c 28 N80-20402 *
US-PATENT-APPL-SN-837794 ..... c 28 N81-14103 *
US-PATENT-APPL-SN-837795 ..... c 36 N80-14364 *
US-PATENT-APPL-SN-837796 ..... c 35 N79-14345 *
US-PATENT-APPL-SN-837825 ..... c 15 N71-27006 *
US-PATENT-APPL-SN-837830 ..... c 02 N71-27088 *
US-PATENT-APPL-SN-83816 ..... c 44 N74-14784 *
US-PATENT-APPL-SN-838278 ..... c 60 N74-20836 *
US-PATENT-APPL-SN-838308 ..... c 52 N80-27072 *
US-PATENT-APPL-SN-838336 ..... c 44 N79-11470 *
US-PATENT-APPL-SN-838337 ..... c 31 N79-17029 *
US-PATENT-APPL-SN-838630 ..... c 14 N71-26993 *
US-PATENT-APPL-SN-838648 ..... c 33 N87-23879 *
US-PATENT-APPL-SN-838649 ..... c 34 N86-26575 * #
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US-PATENT-APPL-SN-838655 ..... c 27 N87-22848 *
US-PATENT-APPL-SN-839934 ..... c 07 N72-20140 *
US-PATENT-APPL-SN-839935 ..... c 15 N71-24895 *
US-PATENT-APPL-SN-839941 ..... c 07 N71-26181 *
US-PATENT-APPL-SN-839963 ..... c 27 N79-33316 *
US-PATENT-APPL-SN-839963 ..... c 27 N81-14078 *
US-PATENT-APPL-SN-839994 ..... c 28 N71-28915 *
US-PATENT-APPL-SN-84002 ..... c 06 N73-20217 *
US-PATENT-APPL-SN-840176 ..... c 28 N71-27095 *
US-PATENT-APPL-SN-840308 ..... c 07 N71-33613 *
US-PATENT-APPL-SN-840359 ..... c 23 N71-29125 *
US-PATENT-APPL-SN-840816 ..... c 27 N87-28657 *
US-PATENT-APPL-SN-840870 ..... c 15 N71-26189 *
US-PATENT-APPL-SN-840900 ..... c 26 N87-25455 *
US-PATENT-APPL-SN-840983 ..... c 05 N70-33285 *
US-PATENT-APPL-SN-841278 ..... c 33 N77-21316 *
US-PATENT-APPL-SN-841845 ..... c 14 N73-32317 *
US-PATENT-APPL-SN-84212 ..... c 27 N74-17283 *
US-PATENT-APPL-SN-842170 ..... c 11 N70-33278 *
US-PATENT-APPL-SN-842171 ..... c 11 N70-33329 *
US-PATENT-APPL-SN-84289 ..... c 15 N73-14469 *
US-PATENT-APPL-SN-84290 ..... c 05 N73-20137 *
US-PATENT-APPL-SN-843022 ..... c 11 N70-33287 *
US-PATENT-APPL-SN-843032 ..... c 28 N70-41818 *
US-PATENT-APPL-SN-843090 ..... c 27 N79-22300 *
US-PATENT-APPL-SN-843251 ..... c 03 N72-11052 *
US-PATENT-APPL-SN-843308 ..... c 32 N79-14256 *
US-PATENT-APPL-SN-844225 ..... c 05 N72-25120 *
US-PATENT-APPL-SN-844243 ..... c 37 N75-29426 *
US-PATENT-APPL-SN-844315 ..... c 35 N77-21392 *
US-PATENT-APPL-SN-844344 ..... c 24 N79-14156 *
US-PATENT-APPL-SN-844346 ..... c 44 N79-11472 *
US-PATENT-APPL-SN-844355 ..... c 03 N72-26031 *
US-PATENT-APPL-SN-845365 ..... c 09 N71-13518 *
US-PATENT-APPL-SN-845584 ..... c 27 N73-22710 *
US-PATENT-APPL-SN-845807 ..... c 15 N72-11391 *
US-PATENT-APPL-SN-845971 ..... c 11 N71-28829 *
US-PATENT-APPL-SN-845972 ..... c 09 N70-11148 * #
US-PATENT-APPL-SN-845973 ..... c 11 N71-24985 *
US-PATENT-APPL-SN-845974 ..... c 33 N71-25353 *
US-PATENT-APPL-SN-845990 ..... c 14 N71-27005 *
US-PATENT-APPL-SN-845991 ..... c 14 N71-29134 *
US-PATENT-APPL-SN-846427 ..... c 36 N86-14350 *
US-PATENT-APPL-SN-846428 ..... c 34 N87-21255 *
US-PATENT-APPL-SN-846429 ..... c 35 N86-29149 *
US-PATENT-APPL-SN-846430 ..... c 82 N87-29372 *
US-PATENT-APPL-SN-846439 ..... c 06 N87-23631 *
US-PATENT-APPL-SN-846462 ..... c 07 N87-16828 *
US-PATENT-APPL-SN-847023 ..... c 31 N70-37938 *
US-PATENT-APPL-SN-847027 ..... c 03 N70-33343 *
US-PATENT-APPL-SN-847276 ..... c 37 N81-32510 *
US-PATENT-APPL-SN-847277 ..... c 31 N79-28370 *
US-PATENT-APPL-SN-847278 ..... c 34 N79-20335 *
US-PATENT-APPL-SN-847596 ..... c 15 N70-10867 * #
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US-PATENT-APPL-SN-848262 ..... c 15 N72-21462 *
US-PATENT-APPL-SN-848325 ..... c 06 N70-11251 * #
US-PATENT-APPL-SN-848351 ..... c 06 N70-11252 * #
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US-PATENT-APPL-SN-848418 ..... c 43 N79-26439 *
US-PATENT-APPL-SN-848419 ..... c 43 N80-23711 *
US-PATENT-APPL-SN-848420 ..... c 43 N79-25443 *
US-PATENT-APPL-SN-848421 ..... c 43 N80-14423 *
US-PATENT-APPL-SN-848428 ..... c 25 N82-21266 *
US-PATENT-APPL-SN-848481 ..... c 17 N70-33283 *
US-PATENT-APPL-SN-848776 ..... c 07 N72-22127 *
US-PATENT-APPL-SN-848793 ..... c 43 N79-31706 *
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US-PATENT-APPL-SN-848805 ..... c 06 N72-17095 *
US-PATENT-APPL-SN-848810 ..... c 07 N72-11146 *
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US-PATENT-APPL-SN-849274 ..... c 28 N79-14228 *
US-PATENT-APPL-SN-84961 ..... c 02 N70-34178 *

US-PATENT-APPL-SN-84962 ..... c 21 N70-36943 *
US-PATENT-APPL-SN-8497 ..... c 14 N72-11363 *
US-PATENT-APPL-SN-8498 ..... c 05 N71-24729 *
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US-PATENT-APPL-SN-850507 ..... c 25 N79-14169 *
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US-PATENT-APPL-SN-852461 ..... c 27 N89-16042 *
US-PATENT-APPL-SN-852466 ..... c 37 N87-24689 *
US-PATENT-APPL-SN-852467 ..... c 27 N87-24564 *
US-PATENT-APPL-SN-852468 ..... c 72 N87-21661 *
US-PATENT-APPL-SN-852843 ..... c 09 N72-22195 *
US-PATENT-APPL-SN-853349 ..... c 35 N81-33448 *
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US-PATENT-APPL-SN-853641 ..... c 33 N72-25913 *
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US-PATENT-APPL-SN-853716 ..... c 09 N71-24904 *
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US-PATENT-APPL-SN-853856 ..... c 16 N71-29131 *
US-PATENT-APPL-SN-853963 ..... c 14 N70-33254 *
US-PATENT-APPL-SN-853984 ..... c 21 N70-33181 *
US-PATENT-APPL-SN-854615 ..... c 09 N71-24807 *
US-PATENT-APPL-SN-854920 ..... c 15 N79-26100 *
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US-PATENT-APPL-SN-855364 ..... c 52 N81-27783 *
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US-PATENT-APPL-SN-856464 ..... c 36 N79-14362 *
US-PATENT-APPL-SN-856465 ..... c 44 N80-14473 *
US-PATENT-APPL-SN-856466 ..... c 72 N80-14877 *
US-PATENT-APPL-SN-857241 ..... c 46 N74-23089 *
US-PATENT-APPL-SN-857445 ..... c 05 N71-24728 *
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US-PATENT-APPL-SN-858785 ..... c 33 N79-11313 *
US-PATENT-APPL-SN-858786 ..... c 27 N79-14213 *
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US-PATENT-APPL-SN-860751 ..... c 08 N72-18184 *
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US-PATENT-APPL-SN-861392 ..... c 71 N79-23753 *
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US-PATENT-APPL-SN-862942 ..... c 33 N90-20320 *
US-PATENT-APPL-SN-862959 ..... c 33 N87-21232 *
US-PATENT-APPL-SN-863024 ..... c 46 N80-14603 *
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US-PATENT-APPL-SN-871207 ..... c 23 N86-32526 * #
US-PATENT-APPL-SN-87222 ..... c 05 N72-27103 *
US-PATENT-APPL-SN-872602 ..... c 09 N72-22200 *
US-PATENT-APPL-SN-872684 ..... c 08 N70-34675 * #
US-PATENT-APPL-SN-873045 ..... c 14 N72-20379 *
US-PATENT-APPL-SN-873259 ..... c 08 N72-21200 *
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US-PATENT-APPL-SN-874435 ..... c 11 N71-33612 *
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US-PATENT-APPL-SN-87551 ..... c 33 N73-16918 *
US-PATENT-APPL-SN-875796 ..... c 37 N88-23976 *
US-PATENT-APPL-SN-875799 ..... c 34 N87-28867 *
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US-PATENT-APPL-SN-876299 ..... c 44 N80-18552 *
US-PATENT-APPL-SN-876431 ..... c 33 N79-24254 *
US-PATENT-APPL-SN-876432 ..... c 36 N80-18372 *
US-PATENT-APPL-SN-876438 ..... c 52 N79-26772 *
US-PATENT-APPL-SN-876440 ..... c 51 N80-16714 *
US-PATENT-APPL-SN-876441 ..... c 74 N79-20856 *
US-PATENT-APPL-SN-876586 ..... c 15 N72-25452 *
US-PATENT-APPL-SN-876586 ..... c 25 N74-30502 *
US-PATENT-APPL-SN-877445 ..... c 23 N82-29358 *
US-PATENT-APPL-SN-877717 ..... c 14 N72-27410 *
US-PATENT-APPL-SN-877717 ..... c 14 N73-13417 *
US-PATENT-APPL-SN-877990 ..... c 14 N72-28437 *
US-PATENT-APPL-SN-878253 ..... c 25 N81-33246 *
US-PATENT-APPL-SN-878539 ..... c 35 N80-20560 *
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US-PATENT-APPL-SN-878541 ..... c 33 N81-14220 *
US-PATENT-APPL-SN-878542 ..... c 33 N79-28416 *
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US-PATENT-APPL-SN-878731 ..... c 15 N71-26162 *
US-PATENT-APPL-SN-878916 ..... c 60 N87-14863 * #
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US-PATENT-APPL-SN-880247 ..... c 09 N70-20737 * #
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US-PATENT-APPL-SN-880249 ..... c 15 N72-22482 *
US-PATENT-APPL-SN-880250 ..... c 03 N72-20032 *
US-PATENT-APPL-SN-880271 ..... c 15 N72-25448 *
US-PATENT-APPL-SN-880272 ..... c 14 N71-27058 *
US-PATENT-APPL-SN-880399 ..... c 15 N73-12487 *
US-PATENT-APPL-SN-880726 ..... c 44 N80-21828 *
US-PATENT-APPL-SN-880727 ..... c 35 N79-28527 *
US-PATENT-APPL-SN-880728 ..... c 37 N80-10494 *
US-PATENT-APPL-SN-880729 ..... c 35 N80-20563 *
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US-PATENT-APPL-SN-880838 ..... c 37 N79-28549 *
US-PATENT-APPL-SN-880885 ..... c 07 N72-12080 *
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US-PATENT-APPL-SN-881041 ..... c 09 N72-22204 *
US-PATENT-APPL-SN-882122 ..... c 14 N72-22438 *
US-PATENT-APPL-SN-882577 ..... c 07 N71-27056 *
US-PATENT-APPL-SN-883090 ..... c 44 N80-29834 *
US-PATENT-APPL-SN-883094 ..... c 54 N79-24661 *
US-PATENT-APPL-SN-883523 ..... c 09 N72-33204 *
US-PATENT-APPL-SN-883524 ..... c 09 N72-21248 *
US-PATENT-APPL-SN-883961 ..... c 25 N80-16116 *
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US-PATENT-APPL-SN-885049 ..... c 33 N79-23345 *
US-PATENT-APPL-SN-885065 ..... c 35 N79-18296 *
US-PATENT-APPL-SN-885066 ..... c 33 N80-26590 *
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US-PATENT-APPL-SN-886121 ..... c 39 N87-25801 *
US-PATENT-APPL-SN-886149 ..... c 27 N87-28656 *
US-PATENT-APPL-SN-886149 ..... c 27 N89-29536 *
US-PATENT-APPL-SN-886685 ..... c 10 N72-20223 *
US-PATENT-APPL-SN-886698 ..... c 09 N72-17153 *
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US-PATENT-APPL-SN-887701 ..... c 08 N71-29034 *
US-PATENT-APPL-SN-888362 ..... c 33 N80-14300 *
US-PATENT-APPL-SN-888432 ..... c 74 N81-17888 *
US-PATENT-APPL-SN-888434 ..... c 51 N83-27589 *
US-PATENT-APPL-SN-889374 ..... c 08 N72-25207 *
US-PATENT-APPL-SN-889375 ..... c 10 N72-20222 *
US-PATENT-APPL-SN-889376 ..... c 18 N71-26285 *
US-PATENT-APPL-SN-889387 ..... c 09 N71-29035 *
US-PATENT-APPL-SN-889420 ..... c 14 N72-25413 *
US-PATENT-APPL-SN-889422 ..... c 09 N72-25259 *
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US-PATENT-APPL-SN-889437 ..... c 15 N72-11382 *
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US-PATENT-APPL-SN-889478 ..... c 08 N71-29138 *
US-PATENT-APPL-SN-889479 ..... c 14 N72-17325 *
US-PATENT-APPL-SN-889551 ..... c 21 N72-21624 *
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US-PATENT-APPL-SN-889558 ..... c 15 N72-22491 *
US-PATENT-APPL-SN-889583 ..... c 15 N72-21464 *
US-PATENT-APPL-SN-889584 ..... c 08 N72-31226 *
US-PATENT-APPL-SN-889670 ..... c 39 N79-22537 *
US-PATENT-APPL-SN-889671 ..... c 24 N81-14000 *
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US-PATENT-APPL-SN-889682 ..... c 15 N72-25447 *
US-PATENT-APPL-SN-890445 ..... c 18 N87-27713 *
US-PATENT-APPL-SN-890575 ..... c 09 N87-25334 *
US-PATENT-APPL-SN-890577 ..... c 27 N86-29040 *
US-PATENT-APPL-SN-890586 ..... c 32 N87-15390 * #
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US-PATENT-APPL-SN-890982 ..... c 35 N88-29150 *
US-PATENT-APPL-SN-891243 ..... c 44 N79-25492 *
US-PATENT-APPL-SN-891244 ..... c 05 N79-24876 *
US-PATENT-APPL-SN-891356 ..... c 35 N80-18359 *
US-PATENT-APPL-SN-891358 ..... c 44 N80-14474 *
US-PATENT-APPL-SN-891370 ..... c 20 N79-20179 *
US-PATENT-APPL-SN-891372 ..... c 37 N79-22474 *
US-PATENT-APPL-SN-891373 ..... c 31 N80-18231 *
US-PATENT-APPL-SN-891872 ..... c 25 N82-24312 *
US-PATENT-APPL-SN-89209 ..... c 09 N72-25248 *
US-PATENT-APPL-SN-89210 ..... c 07 N73-26119 *
US-PATENT-APPL-SN-89211 ..... c 14 N73-12446 *
US-PATENT-APPL-SN-89212 ..... c 08 N72-25206 *
US-PATENT-APPL-SN-893382 ..... c 34 N79-24285 *
US-PATENT-APPL-SN-893383 ..... c 31 N81-27323 *
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US-PATENT-APPL-SN-893857 ..... c 24 N81-17170 *
US-PATENT-APPL-SN-893857 ..... c 24 N81-26179 *
US-PATENT-APPL-SN-893865 ..... c 37 N81-24443 *
US-PATENT-APPL-SN-893903 ..... c 60 N81-15706 *
US-PATENT-APPL-SN-894213 ..... c 37 N80-23655 *
US-PATENT-APPL-SN-894541 ..... c 54 N89-29053 *
US-PATENT-APPL-SN-897828 ..... c 52 N81-29783 *
US-PATENT-APPL-SN-897829 ..... c 44 N79-25481 *
US-PATENT-APPL-SN-897830 ..... c 35 N80-21719 *
US-PATENT-APPL-SN-897831 ..... c 44 N80-20808 *
US-PATENT-APPL-SN-897832 ..... c 43 N81-26509 *
US-PATENT-APPL-SN-897840 ..... c 31 N81-14137 *
US-PATENT-APPL-SN-898449 ..... c 31 N88-29052 *
US-PATENT-APPL-SN-899123 ..... c 44 N79-14528 *
US-PATENT-APPL-SN-899683 ..... c 18 N87-14413 * #
US-PATENT-APPL-SN-899828 ..... c 32 N80-18252 *
US-PATENT-APPL-SN-900859 ..... c 27 N81-17281 *
US-PATENT-APPL-SN-900841 ..... c 32 N82-31583 *
US-PATENT-APPL-SN-900842 ..... c 32 N79-24203 *
US-PATENT-APPL-SN-900843 ..... c 44 N80-20810 *
US-PATENT-APPL-SN-901055 ..... c 76 N80-32245 *
US-PATENT-APPL-SN-901113 ..... c 35 N87-29884 *
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US-PATENT-APPL-SN-901496 ..... c 23 N87-23698 *
US-PATENT-APPL-SN-903019 ..... c 46 N80-10709 *
US-PATENT-APPL-SN-904128 ..... c 25 N88-23845 *
US-PATENT-APPL-SN-904132 ..... c 02 N89-14224 *
US-PATENT-APPL-SN-904134 ..... c 18 N88-26398 *
US-PATENT-APPL-SN-904513 ..... c 33 N88-14270 *

US-PATENT-APPL-SN-904812 ..... c 37 N88-14359 *
US-PATENT-APPL-SN-90595 ..... c 03 N72-20031 *
US-PATENT-APPL-SN-906297 ..... c 44 N79-14529 *
US-PATENT-APPL-SN-906298 ..... c 76 N80-18951 *
US-PATENT-APPL-SN-906299 ..... c 27 N80-16158 *
US-PATENT-APPL-SN-907421 ..... c 37 N81-14316 *
US-PATENT-APPL-SN-907431 ..... c 37 N81-25370 *
US-PATENT-APPL-SN-907435 ..... c 27 N80-10358 *
US-PATENT-APPL-SN-907436 ..... c 37 N80-14398 *
US-PATENT-APPL-SN-907479 ..... c 27 N80-24438 *
US-PATENT-APPL-SN-909100 ..... c 37 N79-26550 *
US-PATENT-APPL-SN-909235 ..... c 07 N81-19115 *
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US-PATENT-APPL-SN-910793 ..... c 44 N80-16452 *
US-PATENT-APPL-SN-910794 ..... c 14 N81-26161 *
US-PATENT-APPL-SN-910992 ..... c 52 N81-24711 *
US-PATENT-APPL-SN-91180 ..... c 14 N70-40240 *
US-PATENT-APPL-SN-911851 ..... c 29 N87-18679 * #
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US-PATENT-APPL-SN-916855 ..... c 44 N80-14472 *
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US-PATENT-APPL-SN-918533 ..... c 32 N79-23310 *
US-PATENT-APPL-SN-918534 ..... c 33 N80-32650 *
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US-PATENT-APPL-SN-920878 ..... c 24 N78-27184 * #
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US-PATENT-APPL-SN-921627 ..... c 33 N80-14332 *
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US-PATENT-APPL-SN-924467 ..... c 23 N88-24692 *
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US-PATENT-APPL-SN-925189 ..... c 76 N88-24544 *
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US-PATENT-APPL-SN-931217 ..... c 37 N80-32716 *
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US-PATENT-APPL-SN-933186 ..... c 27 N80-32515 *
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US-PATENT-APPL-SN-933941 ..... c 33 N89-14385 *
US-PATENT-APPL-SN-933961 ..... c 76 N87-29360 *
US-PATENT-APPL-SN-933962 ..... c 25 N88-29002 *
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US-PATENT-APPL-SN-934576 ..... c 35 N80-18358 *
US-PATENT-APPL-SN-935827 ..... c 37 N80-18393 *
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US-PATENT-APPL-SN-938297 ..... c 25 N81-14015 *
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US-PATENT-APPL-SN-938299 ..... c 33 N81-19389 *
US-PATENT-APPL-SN-938300 ..... c 37 N80-23654 *

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US-PATENT-APPL-SN-938581 ..... c 04 N80-32359 *
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US-PATENT-APPL-SN-940689 ..... c 35 N80-28686 *
US-PATENT-APPL-SN-940970 ..... c 72 N80-27163 *
US-PATENT-APPL-SN-941711 ..... c 24 N80-26388 *
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US-PATENT-APPL-SN-97112 ..... c 21 N70-34539 *
US-PATENT-APPL-SN-971473 ..... c 23 N81-29160 *
US-PATENT-APPL-SN-971474 ..... c 20 N82-18314 *
US-PATENT-APPL-SN-971475 ..... c 27 N81-24257 *
US-PATENT-APPL-SN-971596 ..... c 27 N80-32516 *
US-PATENT-APPL-SN-972252 ..... c 35 N81-33448 *
US-PATENT-APPL-SN-97343 ..... c 10 N72-27246 *
US-PATENT-APPL-SN-974292 ..... c 26 N80-23419 *
US-PATENT-APPL-SN-974471 ..... c 32 N81-14185 *
US-PATENT-APPL-SN-974472 ..... c 37 N81-15363 *
US-PATENT-APPL-SN-974473 ..... c 60 N81-27814 *
US-PATENT-APPL-SN-974474 ..... c 25 N81-19242 *
US-PATENT-APPL-SN-974475 ..... c 33 N81-17349 *
US-PATENT-APPL-SN-974476 ..... c 52 N81-14613 *
US-PATENT-APPL-SN-97472 ..... c 14 N73-28487 *
US-PATENT-APPL-SN-97829 ..... c 06 N73-13129 *
US-PATENT-APPL-SN-98517 ..... c 09 N72-25250 *
US-PATENT-APPL-SN-98640 ..... c 09 N72-25253 *
US-PATENT-APPL-SN-98772 ..... c 08 N73-12176 *
US-PATENT-APPL-SN-98773 ..... c 15 N72-22486 *
US-PATENT-APPL-SN-98774 ..... c 14 N73-19419 *
US-PATENT-APPL-SN-98798 ..... c 09 N73-13209 *
US-PATENT-APPL-SN-99174 ..... c 14 N72-33377 *
US-PATENT-APPL-SN-99175 ..... c 09 N72-25258 *
US-PATENT-APPL-SN-99198 ..... c 31 N73-32749 *
US-PATENT-APPL-SN-99201 ..... c 15 N73-25512 *
US-PATENT-APPL-SN-99201 ..... c 37 N74-20063 *
US-PATENT-APPL-SN-99524 ..... c 06 N72-27144 *

US-PATENT-APPL-SN-99901 ..... c 37 N74-10474 *
US-PATENT-APPL-SN-99903 ..... c 11 N73-12265 *

US-PATENT-APPL-503409 ..... c 33 N90-27041 * #

US-PATENT-CASE-165-104.25 ..... c 34 N87-28867 *
US-PATENT-CASE-165-104.26 ..... c 34 N87-28867 *
US-PATENT-CASE-165-13 ..... c 34 N87-28867 *
US-PATENT-CASE-165-1 ..... c 34 N87-28867 *
US-PATENT-CASE-165-32 ..... c 34 N87-28867 *
US-PATENT-CASE-165-41 ..... c 34 N87-28867 *
US-PATENT-CASE-179-146-R ..... c 05 N83-27975 *
US-PATENT-CASE-179-179 ..... c 05 N83-27975 *
US-PATENT-CASE-244-121 ..... c 05 N83-19737 *
US-PATENT-CASE-244-129.4 ..... c 05 N83-19737 *
US-PATENT-CASE-292-254 ..... c 05 N83-19737 *
US-PATENT-CASE-356-129 ..... c 36 N83-29680 *
US-PATENT-CASE-367-906 ..... c 05 N83-27975 *
US-PATENT-CASE-368-10 ..... c 35 N83-29651 *
US-PATENT-CASE-368-118 ..... c 35 N83-29651 *
US-PATENT-CASE-368-119 ..... c 35 N83-29651 *
US-PATENT-CASE-368-120 ..... c 35 N83-29651 *
US-PATENT-CASE-368-6 ..... c 35 N83-29651 *
US-PATENT-CASE-368-9 ..... c 35 N83-29651 *

US-PATENT-CLAS-185-27 ..... c 34 N83-34221 *
US-PATENT-CLAS-361-90 ..... c 33 N83-34190 *

US-PATENT-CLASS-D12-76 ..... c 05 N75-25914 *
US-PATENT-CLASS-D71-1 ..... c 05 N74-10907 *

US-PATENT-CLASS-073-601 ..... c 26 N90-21170 *
US-PATENT-CLASS-100-290 ..... c 15 N72-20446 *
US-PATENT-CLASS-100-8 ..... c 33 N74-17928 *
US-PATENT-CLASS-101-366 ..... c 35 N84-22930 *
US-PATENT-CLASS-101-407BP ..... c 37 N84-12491 *
US-PATENT-CLASS-102-101 ..... c 28 N71-26779 *
US-PATENT-CLASS-102-103 ..... c 20 N78-32179 *
US-PATENT-CLASS-102-105 ..... c 33 N72-17947 *
US-PATENT-CLASS-102-105 ..... c 33 N72-25911 *
US-PATENT-CLASS-102-105 ..... c 33 N73-25952 *
US-PATENT-CLASS-102-105 ..... c 27 N74-27037 *
US-PATENT-CLASS-102-105 ..... c 24 N79-25142 *
US-PATENT-CLASS-102-21.6 ..... c 46 N79-22679 *
US-PATENT-CLASS-102-28EB ..... c 28 N74-27425 *
US-PATENT-CLASS-102-28R ..... c 28 N79-11231 *
US-PATENT-CLASS-102-289 ..... c 27 N82-24339 *
US-PATENT-CLASS-102-34.4 ..... c 07 N72-25171 *
US-PATENT-CLASS-102-378 ..... c 01 N83-35992 *
US-PATENT-CLASS-102-378 ..... c 37 N90-21390 *
US-PATENT-CLASS-102-39 ..... c 20 N78-24275 *
US-PATENT-CLASS-102-49.3 ..... c 20 N77-17143 *
US-PATENT-CLASS-102-49.5 ..... c 31 N71-15687 *
US-PATENT-CLASS-102-49.5 ..... c 15 N71-22874 *
US-PATENT-CLASS-102-49.5 ..... c 31 N71-23008 *
US-PATENT-CLASS-102-49.5 ..... c 31 N73-14853 *
US-PATENT-CLASS-102-49.7 ..... c 28 N73-24784 *
US-PATENT-CLASS-102-49.7 ..... c 20 N78-24275 *
US-PATENT-CLASS-102-49.8 ..... c 28 N73-24784 *
US-PATENT-CLASS-102-49 ..... c 33 N70-36846 *
US-PATENT-CLASS-102-49 ..... c 28 N70-38181 *
US-PATENT-CLASS-102-49 ..... c 03 N70-39930 *
US-PATENT-CLASS-102-49 ..... c 15 N70-41679 *
US-PATENT-CLASS-102-49 ..... c 28 N70-41967 *
US-PATENT-CLASS-102-49 ..... c 31 N71-10582 *
US-PATENT-CLASS-102-49 ..... c 15 N71-13789 *
US-PATENT-CLASS-102-49 ..... c 31 N71-15692 *
US-PATENT-CLASS-102-49 ..... c 31 N71-17730 *
US-PATENT-CLASS-102-504 ..... c 15 N82-24272 *
US-PATENT-CLASS-102-50 ..... c 31 N71-24750 *
US-PATENT-CLASS-102-56R ..... c 02 N81-14968 *
US-PATENT-CLASS-102-70.2A ..... c 28 N74-27425 *
US-PATENT-CLASS-102-70.2R ..... c 19 N74-15089 *
US-PATENT-CLASS-102-70.2 ..... c 09 N71-18599 *
US-PATENT-CLASS-102-70-2R ..... c 28 N74-27425 *
US-PATENT-CLASS-102-70R ..... c 20 N78-24275 *
US-PATENT-CLASS-102-90 ..... c 15 N74-27360 *
US-PATENT-CLASS-102-92.1 ..... c 02 N81-14968 *
US-PATENT-CLASS-102-95 ..... c 11 N73-32152 *
US-PATENT-CLASS-102-96 ..... c 28 N77-10213 *
US-PATENT-CLASS-103.5R ..... c 04 N73-27052 *
US-PATENT-CLASS-103-1 ..... c 26 N71-21824 *
US-PATENT-CLASS-103-37 ..... c 28 N71-14058 *
US-PATENT-CLASS-103-48 ..... c 15 N71-24042 *
US-PATENT-CLASS-104-DIG.4 ..... c 44 N84-23019 *
US-PATENT-CLASS-104-138R ..... c 86 N74-34672 *
US-PATENT-CLASS-104-139 ..... c 05 N71-28619 *
US-PATENT-CLASS-104-172.1 ..... c 18 N88-26398 *
US-PATENT-CLASS-104-1 ..... c 05 N71-28619 *
US-PATENT-CLASS-104-23FS ..... c 86 N74-34672 *
US-PATENT-CLASS-104-281 ..... c 37 N85-20337 *
US-PATENT-CLASS-104-282 ..... c 37 N83-32067 *
US-PATENT-CLASS-104-284 ..... c 37 N85-20337 *
US-PATENT-CLASS-104-290 ..... c 37 N83-32067 *
US-PATENT-CLASS-104-35 ..... c 18 N88-26398 *
US-PATENT-CLASS-104-49 ..... c 18 N88-26398 *

US-PATENT-CLASS-104-83 ..... c 37 N82-21587 *
US-PATENT-CLASS-105-1A ..... c 37 N82-21587 *
US-PATENT-CLASS-105-161 ..... c 43 N79-26439 *
US-PATENT-CLASS-105-171 ..... c 37 N82-21587 *
US-PATENT-CLASS-105-180 ..... c 37 N82-21587 *
US-PATENT-CLASS-105-2R ..... c 85 N82-33288 *
US-PATENT-CLASS-105-216R .... c 37 N82-21587 *
US-PATENT-CLASS-106-1.2 ..... c 44 N79-31752 *
US-PATENT-CLASS-106-13 ..... c 23 N75-14834 *
US-PATENT-CLASS-106-15FP .... c 27 N74-27037 *
US-PATENT-CLASS-106-15FP .... c 27 N76-24405 *
US-PATENT-CLASS-106-15FP .... c 24 N78-15180 *
US-PATENT-CLASS-106-15R ..... c 23 N75-14834 *
US-PATENT-CLASS-106-15 ..... c 18 N71-14014 *
US-PATENT-CLASS-106-15 ..... c 18 N71-15469 *
US-PATENT-CLASS-106-18.16 ... c 27 N82-16238 *
US-PATENT-CLASS-106-18.24 ... c 27 N82-16238 *
US-PATENT-CLASS-106-197 ..... c 25 N82-29370 *
US-PATENT-CLASS-106-1 ..... c 44 N79-31752 *
US-PATENT-CLASS-106-209 ..... c 05 N72-25120 *
US-PATENT-CLASS-106-286 ..... c 18 N72-22566 *
US-PATENT-CLASS-106-287SB .. c 23 N75-14834 *
US-PATENT-CLASS-106-288B .... c 18 N72-22566 *
US-PATENT-CLASS-106-292 ..... c 18 N72-17532 *
US-PATENT-CLASS-106-292 ..... c 27 N77-30237 *
US-PATENT-CLASS-106-296 ..... c 18 N71-26772 *
US-PATENT-CLASS-106-296 ..... c 27 N77-30237 *
US-PATENT-CLASS-106-296 ..... c 24 N79-14156 *
US-PATENT-CLASS-106-299 ..... c 18 N72-17532 *
US-PATENT-CLASS-106-299 ..... c 27 N77-30237 *
US-PATENT-CLASS-106-306 ..... c 24 N76-24363 *
US-PATENT-CLASS-106-39.5 ..... c 27 N78-19302 *
US-PATENT-CLASS-106-39R ..... c 18 N73-14584 *
US-PATENT-CLASS-106-39 ..... c 26 N72-28762 *
US-PATENT-CLASS-106-40 ..... c 18 N71-22998 *
US-PATENT-CLASS-106-43 ..... c 27 N78-17206 *
US-PATENT-CLASS-106-43 ..... c 37 N81-25371 *
US-PATENT-CLASS-106-46 ..... c 26 N72-28762 *
US-PATENT-CLASS-106-48 ..... c 27 N75-27160 *
US-PATENT-CLASS-106-48 ..... c 27 N78-32260 *
US-PATENT-CLASS-106-50 ..... c 27 N82-29452 *
US-PATENT-CLASS-106-50 ..... c 27 N82-29454 *
US-PATENT-CLASS-106-50 ..... c 27 N82-29455 *
US-PATENT-CLASS-106-52 ..... c 37 N74-21063 *
US-PATENT-CLASS-106-52 ..... c 27 N82-29451 *
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US-PATENT-CLASS-106-54 ..... c 27 N75-27160 *
US-PATENT-CLASS-106-54 ..... c 27 N76-22377 *
US-PATENT-CLASS-106-54 ..... c 27 N76-23426 *
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US-PATENT-CLASS-106-55 ..... c 18 N73-14584 *
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US-PATENT-CLASS-106-63 ..... c 18 N73-14584 *
US-PATENT-CLASS-106-65 ..... c 27 N78-19302 *
US-PATENT-CLASS-106-73.5 ..... c 27 N78-19302 *
US-PATENT-CLASS-106-74 ..... c 18 N69-39979 * #
US-PATENT-CLASS-106-74 ..... c 24 N79-31347 *
US-PATENT-CLASS-106-84 ..... c 18 N71-24183 *
US-PATENT-CLASS-106-84 ..... c 18 N71-24184 *
US-PATENT-CLASS-106-84 ..... c 18 N72-22566 *
US-PATENT-CLASS-106-84 ..... c 18 N72-23581 *
US-PATENT-CLASS-106-84 ..... c 24 N79-14156 *
US-PATENT-CLASS-106-84 ..... c 24 N79-31347 *
US-PATENT-CLASS-106-88 ..... c 18 N71-16124 *
US-PATENT-CLASS-106-136 ..... c 09 N75-12968 *
US-PATENT-CLASS-108-3 ..... c 54 N68-24163 *
US-PATENT-CLASS-108-7 ..... c 54 N68-24163 *
US-PATENT-CLASS-109-49.5 ..... c 31 N81-19343 *
US-PATENT-CLASS-109-58.5 ..... c 31 N81-19343 *
US-PATENT-CLASS-110-186 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-218 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-229 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-232 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-234 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-245 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-255 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-262 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-263 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-265 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-266 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-343 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-347 ..... c 31 N81-15154 *
US-PATENT-CLASS-112-402 ..... c 18 N71-26265 *
US-PATENT-CLASS-113-116 ..... c 15 N71-15597 *
US-PATENT-CLASS-114-112 ..... c 18 N90-19278 *
US-PATENT-CLASS-114-122 ..... c 02 N73-26006 *
US-PATENT-CLASS-114-16.6 .... c 37 N76-22540 *
US-PATENT-CLASS-114-201R .... c 18 N90-19278 *
US-PATENT-CLASS-114-66.5 .... c 12 N70-33305 *
US-PATENT-CLASS-114-67R ..... c 02 N88-14071 *
US-PATENT-CLASS-115-103.5 ... c 51 N75-13502 *
US-PATENT-CLASS-116-DIG.43 . c 02 N89-12551 *
US-PATENT-CLASS-116-114.5 .... c 35 N75-25122 *
US-PATENT-CLASS-116-114AH .. c 14 N72-25411 *
US-PATENT-CLASS-116-114AH .. c 35 N75-33367 *
US-PATENT-CLASS-116-117 ..... c 14 N70-42074 *
US-PATENT-CLASS-116-265 ..... c 02 N89-12551 *
US-PATENT-CLASS-117-104 ..... c 18 N71-26100 *
US-PATENT-CLASS-117-105.2 .... c 37 N74-11301 *
US-PATENT-CLASS-117-105.2 .... c 24 N75-33181 *
US-PATENT-CLASS-117-105.5 .... c 15 N73-32360 *
US-PATENT-CLASS-117-105 ..... c 15 N73-32360 *
US-PATENT-CLASS-117-106A .... c 70 N74-13436 *
US-PATENT-CLASS-117-106A .... c 37 N75-15992 *
US-PATENT-CLASS-117-106A .... c 25 N75-26043 *
US-PATENT-CLASS-117-106 ..... c 33 N71-14032 *
US-PATENT-CLASS-117-107.2 .... c 25 N75-26043 *
US-PATENT-CLASS-117-107 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-107 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-119 ..... c 18 N71-16105 *
US-PATENT-CLASS-117-119 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-124C .... c 15 N72-25452 *
US-PATENT-CLASS-117-124F .... c 23 N75-14834 *
US-PATENT-CLASS-117-126GM . c 37 N75-26371 *
US-PATENT-CLASS-117-126GR . c 27 N74-23125 *
US-PATENT-CLASS-117-126R .... c 37 N75-26371 *
US-PATENT-CLASS-117-129 ..... c 37 N74-21063 *
US-PATENT-CLASS-117-129 ..... c 27 N75-27160 *
US-PATENT-CLASS-117-130R .... c 15 N73-32360 *
US-PATENT-CLASS-117-132B .... c 27 N74-23125 *
US-PATENT-CLASS-117-132 ..... c 06 N72-25150 *
US-PATENT-CLASS-117-135.5 .... c 23 N75-14834 *
US-PATENT-CLASS-117-138.8R . c 15 N73-32360 *
US-PATENT-CLASS-117-151 ..... c 15 N73-32360 *
US-PATENT-CLASS-117-152 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-16R ..... c 15 N72-25452 *
US-PATENT-CLASS-117-160R .... c 15 N73-32360 *
US-PATENT-CLASS-117-161P .... c 06 N73-27980 *
US-PATENT-CLASS-117-161UA .. c 25 N75-12067 *
US-PATENT-CLASS-117-161UN . c 06 N73-27980 *
US-PATENT-CLASS-117-161UN . c 27 N74-23125 *
US-PATENT-CLASS-117-161UN . c 25 N75-12067 *
US-PATENT-CLASS-117-161UZ .. c 25 N75-12067 *
US-PATENT-CLASS-117-161 ..... c 06 N72-25150 *
US-PATENT-CLASS-117-2R ..... c 32 N74-27612 *
US-PATENT-CLASS-117-200 ..... c 09 N72-25259 *
US-PATENT-CLASS-117-201 ..... c 15 N69-21460 * #
US-PATENT-CLASS-117-201 ..... c 18 N71-16046 *
US-PATENT-CLASS-117-201 ..... c 03 N72-24037 *
US-PATENT-CLASS-117-201 ..... c 25 N75-26043 *
US-PATENT-CLASS-117-211 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-212 ..... c 09 N71-20705 *
US-PATENT-CLASS-117-212 ..... c 15 N71-29032 *
US-PATENT-CLASS-117-212 ..... c 26 N72-28762 *
US-PATENT-CLASS-117-217 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-217 ..... c 26 N72-28762 *
US-PATENT-CLASS-117-21 ..... c 18 N69-39895 * #
US-PATENT-CLASS-117-224 ..... c 15 N71-28582 *
US-PATENT-CLASS-117-228 ..... c 06 N73-27980 *
US-PATENT-CLASS-117-234 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-235 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-237 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-239 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-240 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-33.3 ..... c 70 N74-13436 *
US-PATENT-CLASS-117-35R ..... c 06 N73-13128 *
US-PATENT-CLASS-117-35 ..... c 32 N79-19186 *
US-PATENT-CLASS-117-37 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-38 ..... c 24 N75-33181 *
US-PATENT-CLASS-117-43 ..... c 31 N79-21227 *
US-PATENT-CLASS-117-45 ..... c 74 N74-20008 *
US-PATENT-CLASS-117-46FS .... c 24 N75-33181 *
US-PATENT-CLASS-117-46 ..... c 15 N71-16077 *
US-PATENT-CLASS-117-47R ..... c 15 N72-25452 *
US-PATENT-CLASS-117-50 ..... c 15 N71-15610 *
US-PATENT-CLASS-117-62 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-62 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-65.2 .... c 18 N71-10772 *
US-PATENT-CLASS-117-66 ..... c 15 N73-32360 *
US-PATENT-CLASS-117-69 ..... c 18 N70-36400 *
US-PATENT-CLASS-117-69 ..... c 15 N71-16075 *
US-PATENT-CLASS-117-6 ..... c 14 N71-20461 *
US-PATENT-CLASS-117-6 ..... c 27 N81-15104 *
US-PATENT-CLASS-117-72 ..... c 35 N75-25122 *
US-PATENT-CLASS-117-8.5 ..... c 24 N75-33181 *
US-PATENT-CLASS-117-93.1GD . c 25 N75-12087 *
US-PATENT-CLASS-117-93.16D . c 15 N72-25447 *
US-PATENT-CLASS-117-93.3 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-93.3 ..... c 37 N75-15992 *
US-PATENT-CLASS-117-95 ..... c 24 N74-19769 *
US-PATENT-CLASS-117-95 ..... c 36 N75-15029 *
US-PATENT-CLASS-117-97 ..... c 36 N75-15029 *
US-PATENT-CLASS-118-11 ..... c 15 N71-17647 *
US-PATENT-CLASS-118-300 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-308 ..... c 17 N71-24911 *
US-PATENT-CLASS-118-313 ..... c 51 N77-27677 *
US-PATENT-CLASS-118-320 ..... c 37 N82-24492 *
US-PATENT-CLASS-118-423 ..... c 37 N82-12441 *
US-PATENT-CLASS-118-43 ..... c 25 N75-29192 *
US-PATENT-CLASS-118-48 ..... c 25 N75-26043 *
US-PATENT-CLASS-118-49.1 ..... c 15 N72-32487 *
US-PATENT-CLASS-118-49.1 ..... c 31 N75-12161 *
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US-PATENT-CLASS-118-49.5 ..... c 09 N71-26701 *
US-PATENT-CLASS-118-49 ..... c 25 N79-26253 *
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US-PATENT-CLASS-118-50.1 ..... c 36 N84-22944 *
US-PATENT-CLASS-118-500 ..... c 37 N78-17383 *
US-PATENT-CLASS-118-500 ..... c 37 N82-12441 *
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US-PATENT-CLASS-118-500 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-503 ..... c 37 N82-24492 *
US-PATENT-CLASS-118-505 ..... c 37 N82-24492 *
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US-PATENT-CLASS-118-57 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-624 ..... c 36 N84-22944 *
US-PATENT-CLASS-118-62 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-641 ..... c 36 N84-22944 *
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US-PATENT-CLASS-118-7 ..... c 51 N77-27677 *
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US-PATENT-CLASS-119-15 ..... c 11 N71-22675 *
US-PATENT-CLASS-119-17 ..... c 51 N81-32829 *
US-PATENT-CLASS-119-18 ..... c 51 N81-32829 *
US-PATENT-CLASS-119-29 ..... c 51 N78-27733 *
US-PATENT-CLASS-119-51.11 .... c 35 N78-19466 *
US-PATENT-CLASS-119-51.13 .... c 51 N74-15778 *
US-PATENT-CLASS-119-51.5 ..... c 51 N74-15778 *
US-PATENT-CLASS-119-51R ..... c 51 N74-15778 *
US-PATENT-CLASS-119-52AF .... c 51 N74-15778 *
US-PATENT-CLASS-119-54 ..... c 51 N74-15778 *
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US-PATENT-CLASS-121-38 ..... c 15 N70-35409 *
US-PATENT-CLASS-121-38 ..... c 02 N71-29128 *
US-PATENT-CLASS-122-32 ..... c 33 N72-20915 *
US-PATENT-CLASS-122-366 ..... c 34 N85-29180 *
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US-PATENT-CLASS-122-366 ..... c 34 N88-29133 *
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US-PATENT-CLASS-122-366 ..... c 27 N90-23541 *
US-PATENT-CLASS-122-366 ..... c 31 N90-23587 *
US-PATENT-CLASS-122-4D ..... c 25 N82-11144 *
US-PATENT-CLASS-123-DIG.12 . c 37 N76-18457 *
US-PATENT-CLASS-123-DIG.12 . c 44 N78-33526 *
US-PATENT-CLASS-123-DIG.12 . c 28 N80-10374 *
US-PATENT-CLASS-123-DIG.8 .... c 37 N77-31497 *
US-PATENT-CLASS-123-1A ..... c 44 N76-29700 *
US-PATENT-CLASS-123-1A ..... c 44 N78-33526 *
US-PATENT-CLASS-123-102 ..... c 11 N72-20244 *
US-PATENT-CLASS-123-119A .... c 37 N77-31497 *
US-PATENT-CLASS-123-119E .... c 37 N76-18457 *
US-PATENT-CLASS-123-120 ..... c 37 N76-18457 *
US-PATENT-CLASS-123-121 ..... c 37 N76-18457 *
US-PATENT-CLASS-123-122AB .. c 28 N72-22772 *
US-PATENT-CLASS-123-122AB .. c 37 N77-31497 *
US-PATENT-CLASS-123-122E .... c 07 N77-23106 *
US-PATENT-CLASS-123-122E .... c 37 N78-10487 *
US-PATENT-CLASS-123-148CB .. c 33 N77-26385 *
US-PATENT-CLASS-123-148DC .. c 37 N79-11405 *
US-PATENT-CLASS-123-148E .... c 33 N77-26385 *
US-PATENT-CLASS-123-148E .... c 37 N79-11405 *
US-PATENT-CLASS-123-179R .... c 28 N80-10374 *
US-PATENT-CLASS-123-193-P ... c 37 N88-23081 *
US-PATENT-CLASS-123-193P .... c 37 N90-22042 *
US-PATENT-CLASS-123-197R .... c 37 N83-36483 *
US-PATENT-CLASS-123-37 ..... c 37 N77-31497 *
US-PATENT-CLASS-123-3 ..... c 44 N76-18642 *
US-PATENT-CLASS-123-3 ..... c 44 N76-29700 *
US-PATENT-CLASS-123-3 ..... c 44 N77-10636 *
US-PATENT-CLASS-123-3 ..... c 37 N77-31497 *
US-PATENT-CLASS-123-3 ..... c 44 N78-33526 *
US-PATENT-CLASS-123-3 ..... c 28 N80-10374 *
US-PATENT-CLASS-123-41.33 .... c 07 N77-23106 *
US-PATENT-CLASS-123-41.33 .... c 37 N78-10487 *
US-PATENT-CLASS-123-56E ..... c 37 N77-31497 *
US-PATENT-CLASS-123-78E ..... c 37 N83-36483 *
US-PATENT-CLASS-123-69A ..... c 37 N76-18457 *
US-PATENT-CLASS-124-11R ..... c 75 N76-17951 *
US-PATENT-CLASS-124-1 ..... c 75 N76-17951 *
US-PATENT-CLASS-124-56 ..... c 18 N86-20469 *
US-PATENT-CLASS-124-6 ..... c 09 N77-19078 *
US-PATENT-CLASS-125-13R ..... c 37 N85-21650 *
US-PATENT-CLASS-125-15 ..... c 37 N85-21650 *
US-PATENT-CLASS-125-1 ..... c 46 N74-23069 *
US-PATENT-CLASS-125-20 ..... c 31 N83-27058 *
US-PATENT-CLASS-125-21 ..... c 37 N80-29703 *
US-PATENT-CLASS-125-23R ..... c 76 N80-18951 *
US-PATENT-CLASS-125-23R ..... c 37 N82-32730 *
US-PATENT-CLASS-125-3 ..... c 40 N74-23069 *
US-PATENT-CLASS-126-DIG.1 .... c 44 N85-30474 *

US-PATENT-CLASS-126-263 ..... c 44 N77-32581 *
US-PATENT-CLASS-126-263 ..... c 44 N78-17460 *
US-PATENT-CLASS-126-263 ..... c 44 N80-20608 *
US-PATENT-CLASS-126-263 ..... c 35 N85-29214 *
US-PATENT-CLASS-126-270 ..... c 09 N70-40234 *
US-PATENT-CLASS-126-270 ..... c 03 N70-41580 *
US-PATENT-CLASS-126-270 ..... c 34 N74-23039 *
US-PATENT-CLASS-126-270 ..... c 44 N76-14595 *
US-PATENT-CLASS-126-270 ..... c 44 N76-23675 *
US-PATENT-CLASS-126-270 ..... c 44 N76-24696 *
US-PATENT-CLASS-126-270 ..... c 35 N77-20401 *
US-PATENT-CLASS-126-270 ..... c 44 N77-32582 *
US-PATENT-CLASS-126-270 ..... c 44 N78-15560 *
US-PATENT-CLASS-126-270 ..... c 44 N78-19599 *
US-PATENT-CLASS-126-270 ..... c 44 N78-31526 *
US-PATENT-CLASS-126-270 ..... c 44 N79-11471 *
US-PATENT-CLASS-126-270 ..... c 44 N79-14526 *
US-PATENT-CLASS-126-270 ..... c 44 N79-23481 *
US-PATENT-CLASS-126-270 ..... c 44 N79-24432 *
US-PATENT-CLASS-126-271 ..... c 44 N75-32581 *
US-PATENT-CLASS-126-271 ..... c 44 N76-14602 *
US-PATENT-CLASS-126-271 ..... c 44 N76-22657 *
US-PATENT-CLASS-126-271 ..... c 44 N76-24696 *
US-PATENT-CLASS-126-271 ..... c 35 N77-20401 *
US-PATENT-CLASS-126-271 ..... c 44 N77-32582 *
US-PATENT-CLASS-126-271 ..... c 44 N78-10554 *
US-PATENT-CLASS-126-271 ..... c 44 N78-17460 *
US-PATENT-CLASS-126-271 ..... c 44 N78-31525 *
US-PATENT-CLASS-126-271 ..... c 44 N78-31526 *
US-PATENT-CLASS-126-271 ..... c 44 N79-11471 *
US-PATENT-CLASS-126-271 ..... c 44 N79-14526 *
US-PATENT-CLASS-126-271 ..... c 44 N79-14529 *
US-PATENT-CLASS-126-271 ..... c 44 N79-18443 *
US-PATENT-CLASS-126-271 ..... c 44 N79-23481 *
US-PATENT-CLASS-126-271 ..... c 44 N79-24433 *
US-PATENT-CLASS-126-400 ..... c 44 N78-15560 *
US-PATENT-CLASS-126-400 ..... c 44 N79-24433 *
US-PATENT-CLASS-126-400 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-415 ..... c 44 N84-34792 *
US-PATENT-CLASS-126-415 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-417 ..... c 44 N80-16452 *
US-PATENT-CLASS-126-417 ..... c 34 N84-22903 *
US-PATENT-CLASS-126-418 ..... c 44 N84-28204 *
US-PATENT-CLASS-126-418 ..... c 44 N86-27706 * #
US-PATENT-CLASS-126-419 ..... c 44 N80-20810 *
US-PATENT-CLASS-126-419 ..... c 44 N81-17518 *
US-PATENT-CLASS-126-419 ..... c 44 N84-28203 *
US-PATENT-CLASS-126-419 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-419 ..... c 44 N86-27706 *
US-PATENT-CLASS-126-422 ..... c 44 N82-18686 *
US-PATENT-CLASS-126-423 ..... c 34 N88-23958 *
US-PATENT-CLASS-126-425 ..... c 44 N88-14492 *
US-PATENT-CLASS-126-429 ..... c 44 N82-18686 *
US-PATENT-CLASS-126-430 ..... c 44 N82-18686 *
US-PATENT-CLASS-126-434 ..... c 44 N80-20810 *
US-PATENT-CLASS-126-437 ..... c 44 N80-20810 *
US-PATENT-CLASS-126-438 ..... c 44 N80-14473 *
US-PATENT-CLASS-126-438 ..... c 44 N82-16475 *
US-PATENT-CLASS-126-438 ..... c 44 N84-28203 *
US-PATENT-CLASS-126-438 ..... c 44 N84-28204 *
US-PATENT-CLASS-126-438 ..... c 44 N86-27706 *
US-PATENT-CLASS-126-440 ..... c 44 N84-28204 *
US-PATENT-CLASS-126-442 ..... c 44 N80-14473 *
US-PATENT-CLASS-126-443 ..... c 35 N89-12048 *
US-PATENT-CLASS-126-451 ..... c 44 N84-28203 *
US-PATENT-CLASS-126-900 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-901 ..... c 44 N80-16452 *
US-PATENT-CLASS-126-901 ..... c 44 N83-34449 *
US-PATENT-CLASS-126-901 ..... c 35 N89-12048 *
US-PATENT-CLASS-126-91A ..... c 25 N79-11151 *
US-PATENT-CLASS-126.2 06E ... c 05 N75-24716 *
US-PATENT-CLASS-126.2 07 ..... c 52 N79-21750 *
US-PATENT-CLASS-128-DIG.12 .. c 37 N77-28487 *
US-PATENT-CLASS-128-DIG.12 .. c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.13 .. c 52 N83-27577 *
US-PATENT-CLASS-128-DIG.16 .. c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.20 .. c 52 N76-19785 *
US-PATENT-CLASS-128-DIG.20 .. c 37 N81-17433 *
US-PATENT-CLASS-128-DIG.25 .. c 52 N81-25660 *
US-PATENT-CLASS-128-DIG.25 .. c 52 N84-11744 *
US-PATENT-CLASS-128-DIG.26 .. c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.4 .... c 05 N72-27103 *
US-PATENT-CLASS-128-DIG.4 .... c 05 N75-24716 *
US-PATENT-CLASS-128-DIG.4 .... c 35 N76-24525 *
US-PATENT-CLASS-128-DIG.4 .... c 52 N77-28717 *
US-PATENT-CLASS-128-DIG.6 .... c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.9 .... c 52 N80-16725 *
US-PATENT-CLASS-128-DIG.9 .... c 51 N81-14605 *
US-PATENT-CLASS-128-1.2 ..... c 52 N82-22875 *
US-PATENT-CLASS-128-1A ..... c 05 N73-32012 *
US-PATENT-CLASS-128-1A ..... c 54 N84-16803 *
US-PATENT-CLASS-128-1R ..... c 52 N77-25772 *
US-PATENT-CLASS-128-1R ..... c 52 N77-28716 *
US-PATENT-CLASS-128-1R ..... c 52 N81-25660 *
US-PATENT-CLASS-128-1R ..... c 52 N84-11744 *
US-PATENT-CLASS-128-142.2 ... c 54 N76-24900 *
US-PATENT-CLASS-128-142.5 ... c 05 N71-11190 *
US-PATENT-CLASS-128-142.5 ... c 05 N71-11203 *
US-PATENT-CLASS-128-142.5 ... c 05 N71-17599 *
US-PATENT-CLASS-128-142.5 ... c 05 N72-20096 *
US-PATENT-CLASS-128-142.5 ... c 05 N73-25125 *
US-PATENT-CLASS-128-142.7 ... c 54 N78-32721 *
US-PATENT-CLASS-128-142R ... c 54 N80-10799 *
US-PATENT-CLASS-128-145.8 ... c 54 N75-27761 *
US-PATENT-CLASS-128-15R ..... c 54 N84-16803 *
US-PATENT-CLASS-128-191R .... c 25 N74-12813 *
US-PATENT-CLASS-128-191R .... c 54 N80-10799 *
US-PATENT-CLASS-128-1 ..... c 05 N70-41819 *
US-PATENT-CLASS-128-1 ..... c 05 N71-20268 *
US-PATENT-CLASS-128-2.05A ... c 52 N74-26626 *
US-PATENT-CLASS-128-2.05A ... c 54 N75-13531 *
US-PATENT-CLASS-128-2.05E ... c 52 N74-27566 *
US-PATENT-CLASS-128-2.05E ... c 52 N76-29896 *
US-PATENT-CLASS-128-2.05F ... c 14 N73-32326 *
US-PATENT-CLASS-128-2.05P ... c 54 N75-13531 *
US-PATENT-CLASS-128-2.05R ... c 05 N73-27941 *
US-PATENT-CLASS-128-2.05R ... c 52 N76-29895 *
US-PATENT-CLASS-128-2.05R ... c 52 N79-10724 *
US-PATENT-CLASS-128-2.05S ... c 52 N74-26626 *
US-PATENT-CLASS-128-2.05T ... c 52 N74-12778 *
US-PATENT-CLASS-128-2.05V ... c 35 N76-24525 *
US-PATENT-CLASS-128-2.05Z ... c 54 N75-27760 *
US-PATENT-CLASS-128-2.05Z ... c 52 N79-18580 *
US-PATENT-CLASS-128-2.05 ..... c 05 N70-41329 *
US-PATENT-CLASS-128-2.05 ..... c 04 N71-23185 *
US-PATENT-CLASS-128-2.05 ..... c 05 N71-27234 *
US-PATENT-CLASS-128-2.06B ... c 05 N75-24716 *
US-PATENT-CLASS-128-2.06E ... c 52 N76-29896 *
US-PATENT-CLASS-128-2.06F ... c 52 N74-12778 *
US-PATENT-CLASS-128-2.06R ... c 05 N73-27941 *
US-PATENT-CLASS-128-2.06R ... c 52 N76-14757 *
US-PATENT-CLASS-128-2.06 ..... c 05 N69-21925 * #
US-PATENT-CLASS-128-2.06 ..... c 05 N71-22896 *
US-PATENT-CLASS-128-2.06 ..... c 09 N71-24618 *
US-PATENT-CLASS-128-2.06 ..... c 05 N71-26293 *
US-PATENT-CLASS-128-2.07 ..... c 05 N73-32015 *
US-PATENT-CLASS-128-2.07 ..... c 52 N74-20728 *
US-PATENT-CLASS-128-2.08 ..... c 05 N69-21473 * #
US-PATENT-CLASS-128-2.08 ..... c 05 N73-32015 *
US-PATENT-CLASS-128-2.08 ..... c 52 N74-20728 *
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US-PATENT-CLASS-128-2.1A ..... c 09 N72-22202 *
US-PATENT-CLASS-128-2.1A ..... c 52 N74-26625 *
US-PATENT-CLASS-128-2.1A ..... c 52 N76-14757 *
US-PATENT-CLASS-128-2.1A ..... c 52 N76-29894 *
US-PATENT-CLASS-128-2.1A ..... c 52 N79-18580 *
US-PATENT-CLASS-128-2.1E ..... c 05 N72-27103 *
US-PATENT-CLASS-128-2.1E ..... c 35 N76-24525 *
US-PATENT-CLASS-128-2.1E ..... c 52 N77-28717 *
US-PATENT-CLASS-128-2.1R ..... c 05 N73-26072 *
US-PATENT-CLASS-128-2.1Z ..... c 35 N76-24525 *
US-PATENT-CLASS-128-2.1 ..... c 05 N71-11193 *
US-PATENT-CLASS-128-2.1 ..... c 05 N71-12346 *
US-PATENT-CLASS-128-2.1 ..... c 05 N71-24729 *
US-PATENT-CLASS-128-2.1 ..... c 09 N71-26002 *
US-PATENT-CLASS-128-2.1 ..... c 05 N72-25120 *
US-PATENT-CLASS-128-2F ..... c 54 N76-14804 *
US-PATENT-CLASS-128-2H ..... c 52 N76-14757 *
US-PATENT-CLASS-128-2H ..... c 52 N76-29894 *
US-PATENT-CLASS-128-2H ..... c 52 N77-10760 *
US-PATENT-CLASS-128-2H ..... c 52 N77-14736 *
US-PATENT-CLASS-128-2N ..... c 05 N72-25122 *
US-PATENT-CLASS-128-2N ..... c 05 N73-13114 *
US-PATENT-CLASS-128-2P ..... c 52 N76-29894 *
US-PATENT-CLASS-128-2R ..... c 09 N72-22202 *
US-PATENT-CLASS-128-2R ..... c 52 N79-12694 *
US-PATENT-CLASS-128-2S ..... c 52 N74-10975 *
US-PATENT-CLASS-128-2S ..... c 52 N74-27864 *
US-PATENT-CLASS-128-2S ..... c 33 N75-31329 *
US-PATENT-CLASS-128-2S ..... c 33 N76-19338 *
US-PATENT-CLASS-128-2S ..... c 52 N76-29895 *
US-PATENT-CLASS-128-2S ..... c 52 N76-29896 *
US-PATENT-CLASS-128-2V ..... c 52 N74-20726 *
US-PATENT-CLASS-128-2V ..... c 35 N75-12271 *
US-PATENT-CLASS-128-2V ..... c 54 N75-27760 *
US-PATENT-CLASS-128-2V ..... c 52 N79-14751 *
US-PATENT-CLASS-128-2V ..... c 52 N79-18580 *
US-PATENT-CLASS-128-202.11 .. c 54 N86-28618 *
US-PATENT-CLASS-128-203 ..... c 54 N76-24900 *
US-PATENT-CLASS-128-204.18 .. c 51 N81-14605 *
US-PATENT-CLASS-128-206F .... c 14 N73-24473 *
US-PATENT-CLASS-128-207.14 .. c 51 N81-14605 *
US-PATENT-CLASS-128-207.28 .. c 51 N81-14605 *
US-PATENT-CLASS-128-212 ..... c 54 N80-10799 *
US-PATENT-CLASS-128-214D .... c 52 N79-14749 *
US-PATENT-CLASS-128-214E .... c 52 N74-22771 *
US-PATENT-CLASS-128-214F .... c 37 N77-28487 *
US-PATENT-CLASS-128-230 ..... c 52 N75-33640 *
US-PATENT-CLASS-128-236 ..... c 51 N81-14605 *
US-PATENT-CLASS-128-24-A .... c 52 N84-34913 *
US-PATENT-CLASS-128-24A ..... c 05 N73-27082 *
US-PATENT-CLASS-128-24A ..... c 54 N75-27760 *
US-PATENT-CLASS-128-24 ..... c 05 N71-24738 *
US-PATENT-CLASS-128-25R ..... c 37 N74-18127 *
US-PATENT-CLASS-128-25 ..... c 05 N71-24738 *
US-PATENT-CLASS-128-26 ..... c 52 N76-19785 *
US-PATENT-CLASS-128-272 ..... c 15 N71-24835 *
US-PATENT-CLASS-128-272 ..... c 52 N79-14749 *
US-PATENT-CLASS-128-275 ..... c 15 N71-24835 *
US-PATENT-CLASS-128-275 ..... c 52 N81-29763 *
US-PATENT-CLASS-128-276 ..... c 52 N80-14684 *
US-PATENT-CLASS-128-276 ..... c 52 N80-18690 *
US-PATENT-CLASS-128-280 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-283 ..... c 05 N69-23192 * #
US-PATENT-CLASS-128-283 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-284 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-285 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-288 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-291 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-295 ..... c 05 N72-22093 *
US-PATENT-CLASS-128-295 ..... c 52 N81-24711 *
US-PATENT-CLASS-128-295 ..... c 52 N81-28740 *
US-PATENT-CLASS-128-296 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-29 ..... c 05 N70-39922 *
US-PATENT-CLASS-128-2 ..... c 05 N73-27062 *
US-PATENT-CLASS-128-303B .... c 52 N83-25346 *
US-PATENT-CLASS-128-303R .... c 52 N77-28716 *
US-PATENT-CLASS-128-305 ..... c 05 N73-27062 *
US-PATENT-CLASS-128-305 ..... c 52 N75-33640 *
US-PATENT-CLASS-128-305 ..... c 52 N78-14773 *
US-PATENT-CLASS-128-325 ..... c 52 N84-28388 *
US-PATENT-CLASS-128-327 ..... c 52 N82-11770 *
US-PATENT-CLASS-128-328 ..... c 52 N84-34913 *
US-PATENT-CLASS-128-329R .... c 52 N79-27836 *
US-PATENT-CLASS-128-346 ..... c 52 N81-25660 *
US-PATENT-CLASS-128-346 ..... c 52 N84-11744 *
US-PATENT-CLASS-128-346 ..... c 52 N84-28388 *
US-PATENT-CLASS-128-348 ..... c 52 N80-16725 *
US-PATENT-CLASS-128-379 ..... c 52 N77-14736 *
US-PATENT-CLASS-128-38 ..... c 54 N84-16803 *
US-PATENT-CLASS-128-400 ..... c 52 N77-14736 *
US-PATENT-CLASS-128-402 ..... c 05 N72-20096 *
US-PATENT-CLASS-128-402 ..... c 52 N77-14736 *
US-PATENT-CLASS-128-410 ..... c 52 N77-28717 *
US-PATENT-CLASS-128-417 ..... c 05 N72-25120 *
US-PATENT-CLASS-128-417 ..... c 05 N72-27103 *
US-PATENT-CLASS-128-418 ..... c 52 N76-29896 *
US-PATENT-CLASS-128-418 ..... c 52 N77-14738 *
US-PATENT-CLASS-128-419P .... c 52 N76-29896 *
US-PATENT-CLASS-128-421 ..... c 52 N82-29863 *
US-PATENT-CLASS-128-422 ..... c 52 N82-33996 *
US-PATENT-CLASS-128-62A ..... c 52 N82-29862 *
US-PATENT-CLASS-128-639 ..... c 52 N79-27836 *
US-PATENT-CLASS-128-642 ..... c 52 N80-27072 *
US-PATENT-CLASS-128-642 ..... c 52 N81-14612 *
US-PATENT-CLASS-128-642 ..... c 52 N81-20703 *
US-PATENT-CLASS-128-660 ..... c 52 N79-26771 *
US-PATENT-CLASS-128-660 ..... c 52 N83-27578 *
US-PATENT-CLASS-128-660 ..... c 52 N85-30618 *
US-PATENT-CLASS-128-661.03 .. c 52 N90-21519 *
US-PATENT-CLASS-128-663 ..... c 52 N83-27578 *
US-PATENT-CLASS-128-665 ..... c 52 N81-27783 *
US-PATENT-CLASS-128-666 ..... c 52 N80-23969 *
US-PATENT-CLASS-128-675 ..... c 35 N90-23706 *
US-PATENT-CLASS-128-686 ..... c 52 N82-11770 *
US-PATENT-CLASS-128-690 ..... c 52 N80-23969 *
US-PATENT-CLASS-128-691 ..... c 52 N82-11770 *
US-PATENT-CLASS-128-6 ..... c 52 N80-16725 *
US-PATENT-CLASS-128-736 ..... c 52 N85-30618 *
US-PATENT-CLASS-128-748 ..... c 52 N80-18691 *
US-PATENT-CLASS-128-748 ..... c 35 N90-23706 *
US-PATENT-CLASS-128-760 ..... c 52 N80-18690 *
US-PATENT-CLASS-128-760 ..... c 52 N81-29763 *
US-PATENT-CLASS-128-761 ..... c 52 N81-24711 *
US-PATENT-CLASS-128-774 ..... c 52 N80-27072 *
US-PATENT-CLASS-128-774 ..... c 52 N81-20703 *
US-PATENT-CLASS-128-774 ..... c 52 N83-25346 *
US-PATENT-CLASS-128-778 ..... c 52 N82-22875 *
US-PATENT-CLASS-128-778 ..... c 35 N90-23706 *
US-PATENT-CLASS-128-782 ..... c 52 N80-27072 *
US-PATENT-CLASS-128-782 ..... c 39 N83-20280 *
US-PATENT-CLASS-128-782 ..... c 52 N83-25346 *
US-PATENT-CLASS-128-784 ..... c 52 N82-33996 *
US-PATENT-CLASS-128-80-E .... c 54 N86-22112 *
US-PATENT-CLASS-128-80F ..... c 52 N81-25661 *
US-PATENT-CLASS-128-804 ..... c 52 N82-33996 *
US-PATENT-CLASS-128-89R ..... c 52 N81-25662 *
US-PATENT-CLASS-128-903 ..... c 52 N80-18691 *
US-PATENT-CLASS-128-92C ..... c 27 N78-17215 *
US-PATENT-CLASS-128-92G ..... c 27 N78-17215 *
US-PATENT-CLASS-129-16.7 .... c 06 N71-15908 *
US-PATENT-CLASS-13-20 ..... c 11 N72-23215 *
US-PATENT-CLASS-13-20 ..... c 12 N79-26075 *
US-PATENT-CLASS-13-22 ..... c 12 N79-26075 *
US-PATENT-CLASS-13-24 ..... c 12 N79-26075 *
US-PATENT-CLASS-13-26 ..... c 33 N71-15825 *
US-PATENT-CLASS-13-26 ..... c 14 N71-23267 *
US-PATENT-CLASS-13-31 ..... c 11 N72-23215 *

US-PATENT-CLASS-13-31 ..... c 31 N74-27900 *
US-PATENT-CLASS-13-35 ..... c 33 N71-24145 *
US-PATENT-CLASS-134-137 ..... c 37 N82-12441 *
US-PATENT-CLASS-134-166C .... c 37 N87-17035 *
US-PATENT-CLASS-134-17 ..... c 43 N81-26509 *
US-PATENT-CLASS-134-21 ..... c 37 N76-18456 *
US-PATENT-CLASS-134-37 ..... c 37 N76-18456 *
US-PATENT-CLASS-134-37 ..... c 37 N85-21652 *
US-PATENT-CLASS-134-93 ..... c 37 N87-17035 *
US-PATENT-CLASS-135-1 ..... c 32 N70-36536 *
US-PATENT-CLASS-135-903 ..... c 37 N87-17036 *
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US-PATENT-CLASS-136-114 ..... c 44 N76-14601 *
US-PATENT-CLASS-136-132 ..... c 03 N71-11053 *
US-PATENT-CLASS-136-132 ..... c 03 N71-22974 *
US-PATENT-CLASS-136-133 ..... c 15 N69-24320 * #
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US-PATENT-CLASS-136-133 ..... c 03 N72-15986 *
US-PATENT-CLASS-136-135 ..... c 03 N72-15986 *
US-PATENT-CLASS-136-143 ..... c 44 N76-29899 *
US-PATENT-CLASS-136-148 ..... c 03 N69-21337 * #
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US-PATENT-CLASS-136-148 ..... c 24 N76-14204 *
US-PATENT-CLASS-136-148 ..... c 44 N82-24645 *
US-PATENT-CLASS-136-162 ..... c 44 N76-14601 *
US-PATENT-CLASS-136-166 ..... c 03 N71-23336 *
US-PATENT-CLASS-136-166 ..... c 03 N72-20032 *
US-PATENT-CLASS-136-170 ..... c 03 N71-11051 *
US-PATENT-CLASS-136-175 ..... c 03 N72-20034 *
US-PATENT-CLASS-136-179 ..... c 03 N70-41864 *
US-PATENT-CLASS-136-182 ..... c 03 N71-10728 *
US-PATENT-CLASS-136-182 ..... c 03 N71-20407 *
US-PATENT-CLASS-136-182 ..... c 03 N71-20491 *
US-PATENT-CLASS-136-182 ..... c 44 N74-27519 *
US-PATENT-CLASS-136-182 ..... c 44 N76-14601 *
US-PATENT-CLASS-136-202 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-202 ..... c 03 N72-26031 *
US-PATENT-CLASS-136-202 ..... c 44 N76-16612 *
US-PATENT-CLASS-136-202 ..... c 35 N77-32454 *
US-PATENT-CLASS-136-202 ..... c 35 N79-14346 *
US-PATENT-CLASS-136-206 ..... c 03 N72-11062 *
US-PATENT-CLASS-136-206 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-206 ..... c 44 N76-14595 *
US-PATENT-CLASS-136-206 ..... c 44 N76-31666 *
US-PATENT-CLASS-136-20 ..... c 44 N74-19693 *
US-PATENT-CLASS-136-210 ..... c 44 N76-16612 *
US-PATENT-CLASS-136-211 ..... c 35 N76-15434 *
US-PATENT-CLASS-136-212 ..... c 35 N76-15434 *
US-PATENT-CLASS-136-213 ..... c 14 N69-27459 * #
US-PATENT-CLASS-136-213 ..... c 34 N74-27861 *
US-PATENT-CLASS-136-224 ..... c 14 N73-12447 *
US-PATENT-CLASS-136-225 ..... c 14 N73-24472 *
US-PATENT-CLASS-136-225 ..... c 35 N76-15434 *
US-PATENT-CLASS-136-225 ..... c 44 N85-21768 *
US-PATENT-CLASS-136-227 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-228 ..... c 33 N71-15568 *
US-PATENT-CLASS-136-230 ..... c 14 N71-23039 *
US-PATENT-CLASS-136-230 ..... c 34 N74-27861 *
US-PATENT-CLASS-136-232 ..... c 35 N77-14409 *
US-PATENT-CLASS-136-233 ..... c 14 N72-27410 *
US-PATENT-CLASS-136-233 ..... c 14 N73-13417 *
US-PATENT-CLASS-136-233 ..... c 34 N74-27861 *
US-PATENT-CLASS-136-233 ..... c 35 N77-14409 *
US-PATENT-CLASS-136-236R .... c 35 N77-32454 *
US-PATENT-CLASS-136-236 ..... c 35 N79-14346 *
US-PATENT-CLASS-136-240 ..... c 35 N77-32454 *
US-PATENT-CLASS-136-246 ..... c 44 N85-21768 *
US-PATENT-CLASS-136-249 ..... c 44 N81-12542 *
US-PATENT-CLASS-136-249 ..... c 44 N82-25709 *
US-PATENT-CLASS-136-249 ..... c 44 N82-31764 *
US-PATENT-CLASS-136-249 ..... c 44 N83-32177 *
US-PATENT-CLASS-136-249 ..... c 44 N87-17399 *
US-PATENT-CLASS-136-249 ..... c 33 N87-23879 *
US-PATENT-CLASS-136-24 ..... c 09 N73-32108 *
US-PATENT-CLASS-136-253 ..... c 44 N85-34441 *
US-PATENT-CLASS-136-255 ..... c 44 N81-29525 *
US-PATENT-CLASS-136-255 ..... c 44 N83-14692 *
US-PATENT-CLASS-136-255 ..... c 33 N85-21492 *
US-PATENT-CLASS-136-255 ..... c 44 N85-30475 *
US-PATENT-CLASS-136-255 ..... c 78 N86-20150 *
US-PATENT-CLASS-136-255 ..... c 33 N87-23879 *
US-PATENT-CLASS-136-256 ..... c 44 N83-13579 *
US-PATENT-CLASS-136-256 ..... c 44 N83-14692 *
US-PATENT-CLASS-136-256 ..... c 44 N85-20530 *
US-PATENT-CLASS-136-256 ..... c 44 N85-30475 *
US-PATENT-CLASS-136-258 ..... c 44 N81-19558 *
US-PATENT-CLASS-136-258 ..... c 44 N81-29525 *
US-PATENT-CLASS-136-259 ..... c 44 N83-13579 *
US-PATENT-CLASS-136-259 ..... c 44 N83-14692 *
US-PATENT-CLASS-136-261 ..... c 44 N82-26777 *
US-PATENT-CLASS-136-261 ..... c 44 N85-30475 *
US-PATENT-CLASS-136-261 ..... c 44 N86-32875 *
US-PATENT-CLASS-136-262 ..... c 44 N81-29525 *
US-PATENT-CLASS-136-262 ..... c 78 N86-20150 *
US-PATENT-CLASS-136-26 ..... c 03 N71-10608 *
US-PATENT-CLASS-136-290 ..... c 44 N82-26777 *
US-PATENT-CLASS-136-291 ..... c 44 N81-12542 *
US-PATENT-CLASS-136-30 ..... c 44 N74-19693 *
US-PATENT-CLASS-136-30 ..... c 44 N76-18643 *
US-PATENT-CLASS-136-30 ..... c 44 N76-29699 *
US-PATENT-CLASS-136-36 ..... c 44 N74-19692 *
US-PATENT-CLASS-136-6LF ..... c 44 N76-18643 *
US-PATENT-CLASS-136-6 ..... c 03 N71-26084 *
US-PATENT-CLASS-136-6 ..... c 03 N72-15986 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24641 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24642 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24643 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24644 *
US-PATENT-CLASS-136-79 ..... c 03 N72-20032 *
US-PATENT-CLASS-136-81 ..... c 03 N72-20032 *
US-PATENT-CLASS-136-83R ..... c 03 N72-20034 *
US-PATENT-CLASS-136-83R ..... c 44 N76-18641 *
US-PATENT-CLASS-136-83 ..... c 03 N71-26579 *
US-PATENT-CLASS-136-86A ..... c 44 N76-27664 *
US-PATENT-CLASS-136-86S ..... c 44 N76-18641 *
US-PATENT-CLASS-136-86 ..... c 03 N71-11052 *
US-PATENT-CLASS-136-86 ..... c 03 N71-20904 *
US-PATENT-CLASS-136-86 ..... c 15 N71-23022 *
US-PATENT-CLASS-136-86 ..... c 03 N71-29044 *
US-PATENT-CLASS-136-89AC .... c 44 N77-31601 *
US-PATENT-CLASS-136-89CA .... c 44 N79-25482 *
US-PATENT-CLASS-136-89CC .... c 44 N78-25527 *
US-PATENT-CLASS-136-89CC .... c 44 N78-25529 *
US-PATENT-CLASS-136-89CC .... c 44 N79-11467 *
US-PATENT-CLASS-136-89CC .... c 44 N79-17314 *
US-PATENT-CLASS-136-89CC .... c 44 N79-25482 *
US-PATENT-CLASS-136-89CC .... c 44 N79-31752 *
US-PATENT-CLASS-136-89H ..... c 44 N78-25528 *
US-PATENT-CLASS-136-89H ..... c 44 N78-25529 *
US-PATENT-CLASS-136-89PC .... c 44 N79-25482 *
US-PATENT-CLASS-136-89PC .... c 44 N79-31753 *
US-PATENT-CLASS-136-89P ..... c 44 N77-31601 *
US-PATENT-CLASS-136-89P ..... c 44 N78-25528 *
US-PATENT-CLASS-136-89P ..... c 44 N78-25529 *
US-PATENT-CLASS-136-89P ..... c 44 N78-27515 *
US-PATENT-CLASS-136-89P ..... c 44 N79-17314 *
US-PATENT-CLASS-136-89P ..... c 44 N80-14474 *
US-PATENT-CLASS-136-89SG .... c 44 N76-24609 *
US-PATENT-CLASS-136-89SG .... c 44 N80-24741 *
US-PATENT-CLASS-136-89SJ .... c 44 N78-13526 *
US-PATENT-CLASS-136-89SJ .... c 44 N79-11467 *
US-PATENT-CLASS-136-89SJ .... c 44 N79-14528 *
US-PATENT-CLASS-136-89SJ .... c 44 N79-25482 *
US-PATENT-CLASS-136-89 ..... c 03 N69-24267 * #
US-PATENT-CLASS-136-89 ..... c 03 N71-11049 *
US-PATENT-CLASS-136-89 ..... c 03 N71-11050 *
US-PATENT-CLASS-136-89 ..... c 03 N71-11056 *
US-PATENT-CLASS-136-89 ..... c 03 N71-18698 *
US-PATENT-CLASS-136-89 ..... c 03 N71-19545 *
US-PATENT-CLASS-136-89 ..... c 03 N71-20492 *
US-PATENT-CLASS-136-89 ..... c 03 N71-20895 *
US-PATENT-CLASS-136-89 ..... c 26 N71-23043 *
US-PATENT-CLASS-136-89 ..... c 03 N71-23187 *
US-PATENT-CLASS-136-89 ..... c 03 N71-23449 *
US-PATENT-CLASS-136-89 ..... c 03 N71-33409 *
US-PATENT-CLASS-136-89 ..... c 03 N72-20031 *
US-PATENT-CLASS-136-89 ..... c 03 N72-22042 *
US-PATENT-CLASS-136-89 ..... c 31 N72-22874 *
US-PATENT-CLASS-136-89 ..... c 03 N72-24037 *
US-PATENT-CLASS-136-89 ..... c 09 N72-25259 *
US-PATENT-CLASS-136-89 ..... c 03 N72-27053 *
US-PATENT-CLASS-136-89 ..... c 09 N73-32109 *
US-PATENT-CLASS-136-89 ..... c 44 N74-14784 *
US-PATENT-CLASS-136-89 ..... c 44 N76-14600 *
US-PATENT-CLASS-136-89 ..... c 44 N76-28635 *
US-PATENT-CLASS-136-89 ..... c 44 N76-31666 *
US-PATENT-CLASS-136-89 ..... c 44 N77-10635 *
US-PATENT-CLASS-136-89 ..... c 44 N77-14580 *
US-PATENT-CLASS-136-89 ..... c 44 N77-19571 *
US-PATENT-CLASS-136-89 ..... c 44 N79-11468 *
US-PATENT-CLASS-136-90 ..... c 44 N76-14601 *
US-PATENT-CLASS-137-DIG.9 .... c 54 N76-24900 *
US-PATENT-CLASS-137-101 ..... c 07 N77-23106 *
US-PATENT-CLASS-137-104 ..... c 37 N78-10467 *
US-PATENT-CLASS-137-110 ..... c 54 N76-24900 *
US-PATENT-CLASS-137-116.3 .... c 37 N85-34403 *
US-PATENT-CLASS-137-13 ..... c 15 N71-15967 *
US-PATENT-CLASS-137-13 ..... c 15 N72-33477 *
US-PATENT-CLASS-137-14 ..... c 37 N79-33468 *
US-PATENT-CLASS-137-15.1 ..... c 02 N74-20646 *
US-PATENT-CLASS-137-15.1 ..... c 07 N74-31270 *
US-PATENT-CLASS-137-15.1 ..... c 07 N75-24736 *
US-PATENT-CLASS-137-15.1 ..... c 07 N77-18154 *
US-PATENT-CLASS-137-15.1 ..... c 07 N79-14096 *
US-PATENT-CLASS-137-15.1 ..... c 05 N79-24976 *
US-PATENT-CLASS-137-15.1 ..... c 07 N81-14999 *
US-PATENT-CLASS-137-15.2 ..... c 02 N74-20646 *
US-PATENT-CLASS-137-15.2 ..... c 35 N76-14431 *
US-PATENT-CLASS-137-154 ..... c 15 N73-27406 *
US-PATENT-CLASS-137-154 ..... c 31 N80-20254 *
US-PATENT-CLASS-137-177 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-197 ..... c 15 N70-41646 *
US-PATENT-CLASS-137-197 ..... c 35 N78-12390 *
US-PATENT-CLASS-137-1 ..... c 12 N70-36997 *
US-PATENT-CLASS-137-1 ..... c 15 N73-27406 *
US-PATENT-CLASS-137-207 ..... c 34 N77-30399 *
US-PATENT-CLASS-137-209 ..... c 34 N77-30399 *
US-PATENT-CLASS-137-209 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-340 ..... c 15 N70-34817 *
US-PATENT-CLASS-137-340 ..... c 15 N70-35087 *
US-PATENT-CLASS-137-341 ..... c 12 N71-17661 *
US-PATENT-CLASS-137-375 ..... c 37 N80-23654 *
US-PATENT-CLASS-137-397 ..... c 15 N73-26472 *
US-PATENT-CLASS-137-469 ..... c 05 N72-20097 *
US-PATENT-CLASS-137-484.2 .... c 34 N78-25351 *
US-PATENT-CLASS-137-487.5 .... c 14 N73-13418 *
US-PATENT-CLASS-137-491 ..... c 15 N69-21924 * #
US-PATENT-CLASS-137-493 ..... c 52 N81-25660 *
US-PATENT-CLASS-137-495 ..... c 15 N70-36603 *
US-PATENT-CLASS-137-496 ..... c 15 N71-22706 *
US-PATENT-CLASS-137-501 ..... c 34 N78-25351 *
US-PATENT-CLASS-137-505.12 .. c 14 N71-18625 *
US-PATENT-CLASS-137-505.18 .. c 34 N78-25351 *
US-PATENT-CLASS-137-505.25 .. c 37 N78-25426 *
US-PATENT-CLASS-137-505.38 .. c 37 N75-15060 *
US-PATENT-CLASS-137-505.42 .. c 37 N75-15060 *
US-PATENT-CLASS-137-515.3 .... c 37 N76-14483 *
US-PATENT-CLASS-137-516.27 .. c 15 N73-30459 *
US-PATENT-CLASS-137-535 ..... c 15 N73-30459 *
US-PATENT-CLASS-137-535 ..... c 05 N73-32014 *
US-PATENT-CLASS-137-536 ..... c 05 N73-25125 *
US-PATENT-CLASS-137-539 ..... c 15 N70-41811 *
US-PATENT-CLASS-137-549 ..... c 37 N81-17433 *
US-PATENT-CLASS-137-550 ..... c 37 N76-14483 *
US-PATENT-CLASS-137-554 ..... c 09 N71-23191 *
US-PATENT-CLASS-137-559 ..... c 11 N73-12265 *
US-PATENT-CLASS-137-574 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-576 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-582 ..... c 32 N71-16103 *
US-PATENT-CLASS-137-582 ..... c 32 N71-16106 *
US-PATENT-CLASS-137-582 ..... c 15 N71-19569 *
US-PATENT-CLASS-137-582 ..... c 15 N73-26472 *
US-PATENT-CLASS-137-590 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-594 ..... c 12 N71-18615 *
US-PATENT-CLASS-137-604 ..... c 15 N73-27406 *
US-PATENT-CLASS-137-606 ..... c 37 N87-21332 *
US-PATENT-CLASS-137-608 ..... c 15 N73-13462 *
US-PATENT-CLASS-137-614.06 .. c 37 N79-11402 *
US-PATENT-CLASS-137-614.11 .. c 37 N87-25573 *
US-PATENT-CLASS-137-614.18 .. c 37 N87-25573 *
US-PATENT-CLASS-137-614 ..... c 15 N70-36482 *
US-PATENT-CLASS-137-615 ..... c 12 N71-18031 *
US-PATENT-CLASS-137-624.11 .. c 35 N78-19468 *
US-PATENT-CLASS-137-624.14 .. c 03 N69-21469 * #
US-PATENT-CLASS-137-625.38 .. c 37 N78-25426 *
US-PATENT-CLASS-137-625.3 .... c 37 N78-25426 *
US-PATENT-CLASS-137-625.4 .... c 37 N80-23654 *
US-PATENT-CLASS-137-625.5 .... c 15 N71-23051 *
US-PATENT-CLASS-137-625.69 .. c 15 N70-36908 *
US-PATENT-CLASS-137-628 ..... c 37 N74-21085 *
US-PATENT-CLASS-137-637.05 .. c 37 N79-11402 *
US-PATENT-CLASS-137-81.5 ..... c 12 N69-21466 * #
US-PATENT-CLASS-137-81.5 ..... c 15 N71-15809 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-17578 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-17579 *
US-PATENT-CLASS-137-81.5 ..... c 10 N71-25899 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-27332 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-28741 *
US-PATENT-CLASS-137-81.5 ..... c 28 N72-22772 *
US-PATENT-CLASS-137-81.5 ..... c 15 N72-33477 *
US-PATENT-CLASS-137-81.5 ..... c 15 N73-13462 *
US-PATENT-CLASS-137-81.5 ..... c 28 N73-13773 *
US-PATENT-CLASS-137-819 ..... c 33 N74-11050 *
US-PATENT-CLASS-137-81 ..... c 05 N72-20097 *
US-PATENT-CLASS-137-81 ..... c 14 N73-13418 *
US-PATENT-CLASS-137-833 ..... c 33 N74-11050 *
US-PATENT-CLASS-137-838 ..... c 71 N84-26566 *
US-PATENT-CLASS-137-840 ..... c 33 N74-11050 *
US-PATENT-CLASS-137-886 ..... c 37 N81-17433 *
US-PATENT-CLASS-137-887 ..... c 37 N81-17433 *
US-PATENT-CLASS-137-90 ..... c 37 N85-34403 *
US-PATENT-CLASS-138.8R ..... c 27 N81-15104 *
US-PATENT-CLASS-138-100 ..... c 52 N80-16725 *
US-PATENT-CLASS-138-113 ..... c 34 N75-12222 *
US-PATENT-CLASS-138-114 ..... c 34 N75-12222 *
US-PATENT-CLASS-138-119 ..... c 32 N70-41579 *
US-PATENT-CLASS-138-120 ..... c 54 N86-29619 *
US-PATENT-CLASS-138-120 ..... c 54 N86-29620 *
US-PATENT-CLASS-138-120 ..... c 54 N86-29507 * #
US-PATENT-CLASS-138-133 ..... c 52 N80-16725 *
US-PATENT-CLASS-138-141 ..... c 24 N90-25196 *
US-PATENT-CLASS-138-148 ..... c 34 N75-12222 *
US-PATENT-CLASS-138-149 ..... c 24 N90-25196 *
US-PATENT-CLASS-138-153 ..... c 24 N90-25196 *
US-PATENT-CLASS-138-178 ..... c 15 N72-20445 *
US-PATENT-CLASS-138-33 ..... c 52 N80-16725 *
US-PATENT-CLASS-138-38 ..... c 02 N88-14071 *
US-PATENT-CLASS-138-38 ..... c 34 N88-29133 *

US-PATENT-CLASS-138-42 ..... c 15 N71-15608 *
US-PATENT-CLASS-138-42 ..... c 44 N84-14583 *
US-PATENT-CLASS-138-43 ..... c 15 N71-19213 *
US-PATENT-CLASS-138-45 ..... c 15 N71-18580 *
US-PATENT-CLASS-138-45 ..... c 15 N73-13462 *
US-PATENT-CLASS-138-46 ..... c 12 N71-18615 *
US-PATENT-CLASS-138-4 ..... c 15 N71-18580 *
US-PATENT-CLASS-138-96R ..... c 37 N79-22474 *
US-PATENT-CLASS-138-97 ..... c 37 N86-32736 * #
US-PATENT-CLASS-139-425R .... c 28 N72-11706 *
US-PATENT-CLASS-140-105 ..... c 15 N72-12408 *
US-PATENT-CLASS-140-123 ..... c 15 N71-15918 *
US-PATENT-CLASS-140-124 ..... c 15 N71-10609 *
US-PATENT-CLASS-141-197 ..... c 35 N78-10426 *
US-PATENT-CLASS-141-198 ..... c 25 N86-27431 *
US-PATENT-CLASS-141-23 ..... c 15 N72-21465 *
US-PATENT-CLASS-141-258 ..... c 14 N71-27005 *
US-PATENT-CLASS-141-45 ..... c 29 N90-20236 *
US-PATENT-CLASS-141-4 ..... c 35 N78-10428 *
US-PATENT-CLASS-141-5 ..... c 33 N71-20834 *
US-PATENT-CLASS-141-91 ..... c 12 N71-21069 *
US-PATENT-CLASS-141-93 ..... c 31 N90-20254 *
US-PATENT-CLASS-148-DIG.26 . c 76 N85-30922 *
US-PATENT-CLASS-148-1.5 ..... c 26 N71-10607 *
US-PATENT-CLASS-148-1.5 ..... c 26 N71-23654 *
US-PATENT-CLASS-148-1.5 ..... c 76 N74-20329 *
US-PATENT-CLASS-148-1.5 ..... c 44 N80-29835 *
US-PATENT-CLASS-148-1.5 ..... c 33 N81-26360 *
US-PATENT-CLASS-148-1.5 ..... c 44 N82-26777 *
US-PATENT-CLASS-148-1.5 ..... c 44 N82-29709 *
US-PATENT-CLASS-148-1.5 ..... c 44 N86-32875 *
US-PATENT-CLASS-148-11.5R ... c 15 N73-13465 *
US-PATENT-CLASS-148-12.4 ..... c 26 N79-22271 *
US-PATENT-CLASS-148-12.7A ... c 26 N78-24333 *
US-PATENT-CLASS-148-12.7N ... c 26 N77-20201 *
US-PATENT-CLASS-148-12F ..... c 26 N79-22271 *
US-PATENT-CLASS-148-121 ..... c 76 N79-16678 *
US-PATENT-CLASS-148-125 ..... c 26 N78-24333 *
US-PATENT-CLASS-148-126 ..... c 17 N71-24142 *
US-PATENT-CLASS-148-126 ..... c 18 N71-26153 *
US-PATENT-CLASS-148-126 ..... c 18 N71-28729 *
US-PATENT-CLASS-148-126 ..... c 26 N74-10521 *
US-PATENT-CLASS-148-127 ..... c 26 N75-29236 *
US-PATENT-CLASS-148-13.1 ..... c 76 N90-19684 *
US-PATENT-CLASS-148-131 ..... c 26 N80-26492 *
US-PATENT-CLASS-148-13 ..... c 14 N71-25892 *
US-PATENT-CLASS-148-13 ..... c 76 N90-19684 *
US-PATENT-CLASS-148-140 ..... c 09 N90-23415 *
US-PATENT-CLASS-148-159 ..... c 26 N89-28621 *
US-PATENT-CLASS-148-16.6 ..... c 26 N86-14179 *
US-PATENT-CLASS-148-162 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-162 ..... c 26 N87-28647 *
US-PATENT-CLASS-148-173 ..... c 76 N83-20789 *
US-PATENT-CLASS-148-174 ..... c 26 N71-29156 *
US-PATENT-CLASS-148-174 ..... c 44 N76-28635 *
US-PATENT-CLASS-148-174 ..... c 44 N78-24609 *
US-PATENT-CLASS-148-174 ..... c 76 N85-30922 *
US-PATENT-CLASS-148-174 ..... c 76 N87-15882 *
US-PATENT-CLASS-148-175 ..... c 25 N75-26043 *
US-PATENT-CLASS-148-175 ..... c 76 N76-25049 *
US-PATENT-CLASS-148-175 ..... c 44 N76-28635 *
US-PATENT-CLASS-148-175 ..... c 44 N82-28780 *
US-PATENT-CLASS-148-175 ..... c 76 N83-20789 *
US-PATENT-CLASS-148-175 ..... c 76 N85-30922 *
US-PATENT-CLASS-148-175 ..... c 76 N87-15882 *
US-PATENT-CLASS-148-187 ..... c 26 N72-17820 *
US-PATENT-CLASS-148-187 ..... c 14 N72-28438 *
US-PATENT-CLASS-148-187 ..... c 33 N81-26360 *
US-PATENT-CLASS-148-187 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-188 ..... c 24 N71-10560 *
US-PATENT-CLASS-148-188 ..... c 09 N71-12513 *
US-PATENT-CLASS-148-188 ..... c 44 N79-11488 *
US-PATENT-CLASS-148-188 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-189 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-190 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-20.3 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-2 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-2 ..... c 26 N79-22271 *
US-PATENT-CLASS-148-32 ..... c 26 N78-18183 *
US-PATENT-CLASS-148-32.5 ..... c 17 N72-22535 *
US-PATENT-CLASS-148-32.5 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-32.5 ..... c 26 N77-32280 *
US-PATENT-CLASS-148-32.5 ..... c 26 N78-18183 *
US-PATENT-CLASS-148-32 ..... c 26 N77-32279 *
US-PATENT-CLASS-148-32 ..... c 26 N80-23419 *
US-PATENT-CLASS-148-33.2 ..... c 76 N85-30922 *
US-PATENT-CLASS-148-410 ..... c 26 N87-28647 *
US-PATENT-CLASS-148-416 ..... c 26 N89-28621 *
US-PATENT-CLASS-148-417 ..... c 26 N89-28621 *
US-PATENT-CLASS-148-428 ..... c 26 N82-31505 *
US-PATENT-CLASS-148-429 ..... c 26 N87-14482 *
US-PATENT-CLASS-148-4 ..... c 09 N90-23415 *
US-PATENT-CLASS-148-6.11 ..... c 15 N71-24875 *
US-PATENT-CLASS-148-6.15 ..... c 18 N71-23047 *
US-PATENT-CLASS-148-6.20 ..... c 17 N71-23829 *
US-PATENT-CLASS-148-6.3 ..... c 17 N71-33408 *
US-PATENT-CLASS-148-6.3 ..... c 44 N79-18444 *
US-PATENT-CLASS-148-6.3 ..... c 26 N87-25455 *
US-PATENT-CLASS-148-6 ..... c 18 N71-29040 *
US-PATENT-CLASS-148-6 ..... c 76 N79-16678 *
US-PATENT-CLASS-148-902 ..... c 09 N90-23415 *
US-PATENT-CLASS-148-903 ..... c 09 N90-23415 *
US-PATENT-CLASS-149-105 ..... c 26 N78-31255 *
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US-PATENT-CLASS-161-93 ...... c 37 N75-26371 *
US-PATENT-CLASS-162-102 ..... c 24 N76-14304 *
US-PATENT-CLASS-162-14 ...... c 05 N79-17747 *
US-PATENT-CLASS-162-153 ..... c 24 N76-14294 *
US-PATENT-CLASS-162-222 ..... c 24 N76-14304 *
US-PATENT-CLASS-162-229 ..... c 24 N76-14304 *
US-PATENT-CLASS-162-29 ...... c 05 N79-17747 *
US-PATENT-CLASS-164-105 ..... c 20 N79-21123 *
US-PATENT-CLASS-164-113 ..... c 31 N80-21216 *
US-PATENT-CLASS-164-119 ..... c 24 N84-16282 *
US-PATENT-CLASS-164-132 ..... c 37 N76-23670 *
US-PATENT-CLASS-164-284 ..... c 31 N80-21216 *

US-PATENT-CLASS-164-331.12 .. c 27 N83-34041 *
US-PATENT-CLASS-164-60 ...... c 24 N77-27187 *
US-PATENT-CLASS-165-DIG.6 ... c 34 N84-22903 *
US-PATENT-CLASS-165-104.14 .. c 05 N81-26114 *
US-PATENT-CLASS-165-104.14 .. c 34 N85-29179 *
US-PATENT-CLASS-165-104.14 .. c 34 N86-27593 *
US-PATENT-CLASS-165-104.14 .. c 34 N87-22950 *
US-PATENT-CLASS-165-104.14 .. c 34 N88-23958 *
US-PATENT-CLASS-165-104.14 .. c 34 N89-14392 *
US-PATENT-CLASS-165-104.25 .. c 34 N87-22950 *
US-PATENT-CLASS-165-104.26 .. c 74 N83-19596 *
US-PATENT-CLASS-165-104.26 .. c 34 N83-35307 *
US-PATENT-CLASS-165-104.26 .. c 34 N85-21568 *
US-PATENT-CLASS-165-104.26 .. c 34 N85-29180 *
US-PATENT-CLASS-165-104.26 .. c 34 N86-27593 *
US-PATENT-CLASS-165-104.26 .. c 34 N87-22950 *
US-PATENT-CLASS-165-104.26 .. c 34 N88-29133 *
US-PATENT-CLASS-165-104.26 .. c 34 N89-14392 *
US-PATENT-CLASS-165-104.26 .. c 27 N90-23541 *
US-PATENT-CLASS-165-104.26 .. c 31 N90-23587 *
US-PATENT-CLASS-165-104 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-104 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-105 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-105 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-105 ..... c 33 N72-17948 *
US-PATENT-CLASS-165-105 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-105 ..... c 28 N73-32606 *
US-PATENT-CLASS-165-105 ..... c 34 N74-16552 *
US-PATENT-CLASS-165-105 ..... c 34 N75-12222 *
US-PATENT-CLASS-165-105 ..... c 44 N75-32581 *
US-PATENT-CLASS-165-105 ..... c 44 N76-16612 *
US-PATENT-CLASS-165-105 ..... c 34 N76-17317 *
US-PATENT-CLASS-165-105 ..... c 34 N76-27515 *
US-PATENT-CLASS-165-105 ..... c 34 N77-32413 *
US-PATENT-CLASS-165-105 ..... c 25 N78-10224 *
US-PATENT-CLASS-165-105 ..... c 34 N78-17338 *
US-PATENT-CLASS-165-105 ..... c 34 N78-17337 *
US-PATENT-CLASS-165-105 ..... c 44 N78-18443 *
US-PATENT-CLASS-165-105 ..... c 37 N79-28549 *
US-PATENT-CLASS-165-105 ..... c 34 N79-31523 *
US-PATENT-CLASS-165-105 ..... c 35 N81-14287 *
US-PATENT-CLASS-165-106 ..... c 33 N73-32618 *
US-PATENT-CLASS-165-108 ..... c 34 N76-17317 *
US-PATENT-CLASS-165-107 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-107 ..... c 44 N77-32581 *
US-PATENT-CLASS-165-109 ..... c 35 N74-15093 *
US-PATENT-CLASS-165-10 ...... c 44 N76-31667 *
US-PATENT-CLASS-165-110 ..... c 77 N75-20139 *
US-PATENT-CLASS-165-111 ..... c 77 N75-20139 *
US-PATENT-CLASS-165-12 ...... c 33 N71-24276 *
US-PATENT-CLASS-165-12 ...... c 34 N83-34221 *
US-PATENT-CLASS-165-133 ..... c 33 N71-16277 *
US-PATENT-CLASS-165-133 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-133 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-133 ..... c 44 N76-23675 *
US-PATENT-CLASS-165-133 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-134R .... c 74 N83-19596 *
US-PATENT-CLASS-165-134 ..... c 34 N76-17336 *
US-PATENT-CLASS-165-135 ..... c 34 N84-22903 *
US-PATENT-CLASS-165-139 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-13 ...... c 34 N88-23958 *
US-PATENT-CLASS-165-141 ..... c 28 N73-32606 *
US-PATENT-CLASS-165-146 ..... c 34 N79-13289 *
US-PATENT-CLASS-165-155 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-158 ..... c 25 N80-11824 *
US-PATENT-CLASS-165-159 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-161 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-164 ..... c 34 N77-10463 *
US-PATENT-CLASS-165-166 ..... c 54 N77-32722 *
US-PATENT-CLASS-165-169 ..... c 34 N79-13289 *
US-PATENT-CLASS-165-169 ..... c 34 N79-13299 *
US-PATENT-CLASS-165-16 ...... c 31 N80-32583 *
US-PATENT-CLASS-165-170 ..... c 34 N77-10463 *
US-PATENT-CLASS-165-170 ..... c 34 N88-29132 *
US-PATENT-CLASS-165-174 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-180 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-185 ..... c 28 N73-32606 *
US-PATENT-CLASS-165-185 ..... c 34 N83-26359 *
US-PATENT-CLASS-165-1 .... c 09 N70-41717 *
US-PATENT-CLASS-165-1 .... c 34 N75-12222 *
US-PATENT-CLASS-165-1 .... c 34 N85-29180 *
US-PATENT-CLASS-165-1 .... c 34 N87-22950 *
US-PATENT-CLASS-165-1 .... c 34 N88-23958 *
US-PATENT-CLASS-165-20 ...... c 03 N72-28025 *
US-PATENT-CLASS-165-2 .... c 33 N71-24876 *
US-PATENT-CLASS-165-2 .... c 35 N74-15093 *
US-PATENT-CLASS-165-2 .... c 44 N77-32581 *
US-PATENT-CLASS-165-2 .... c 44 N78-17460 *
US-PATENT-CLASS-165-2 .... c 51 N79-10884 *
US-PATENT-CLASS-165-2 .... c 27 N81-36220 *
US-PATENT-CLASS-165-30 ...... c 51 N79-10884 *
US-PATENT-CLASS-165-30 ...... c 31 N79-17029 *
US-PATENT-CLASS-165-30 ...... c 35 N88-20750 *
US-PATENT-CLASS-165-32 ...... c 31 N73-30829 *
US-PATENT-CLASS-165-32 ...... c 33 N73-32618 *
US-PATENT-CLASS-165-32 ...... c 34 N78-17337 *

US-PATENT-CLASS-165-32 ..... c 34 N79-31523 *
US-PATENT-CLASS-165-32 ..... c 44 N80-20810 *
US-PATENT-CLASS-165-32 ..... c 33 N82-24419 *
US-PATENT-CLASS-165-32 ..... c 34 N83-28356 *
US-PATENT-CLASS-165-32 ..... c 34 N83-35307 *
US-PATENT-CLASS-165-32 ..... c 34 N84-14461 *
US-PATENT-CLASS-165-32 ..... c 34 N85-29179 *
US-PATENT-CLASS-165-32 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-34 ..... c 34 N87-22950 *
US-PATENT-CLASS-165-3 ..... c 03 N72-28025 *
US-PATENT-CLASS-165-41 ..... c 34 N84-14461 *
US-PATENT-CLASS-165-41 ..... c 34 N86-27593 *
US-PATENT-CLASS-165-41 ..... c 34 N88-23958 *
US-PATENT-CLASS-165-41 ..... c 35 N89-12048 *
US-PATENT-CLASS-165-41 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-41 ..... c 27 N90-23541 *
US-PATENT-CLASS-165-41 ..... c 31 N90-23587 *
US-PATENT-CLASS-165-44 ..... c 15 N71-26811 *
US-PATENT-CLASS-165-46 ..... c 05 N71-19439 *
US-PATENT-CLASS-165-46 ..... c 05 N71-24147 *
US-PATENT-CLASS-165-46 ..... c 05 N73-20137 *
US-PATENT-CLASS-165-46 ..... c 05 N73-26071 *
US-PATENT-CLASS-165-46 ..... c 54 N82-29002 *
US-PATENT-CLASS-165-46 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-47 ..... c 33 N71-29052 *
US-PATENT-CLASS-165-47 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-47 ..... c 34 N75-12222 *
US-PATENT-CLASS-165-48R ..... c 35 N85-29214 *
US-PATENT-CLASS-165-58 ..... c 27 N83-36220 *
US-PATENT-CLASS-165-61 ..... c 34 N83-34221 *
US-PATENT-CLASS-165-61 ..... c 35 N85-29214 *
US-PATENT-CLASS-165-61 ..... c 35 N86-20750 *
US-PATENT-CLASS-165-61 ..... c 31 N89-12785 *
US-PATENT-CLASS-165-64 ..... c 35 N85-29214 *
US-PATENT-CLASS-165-65 ..... c 35 N86-20750 *
US-PATENT-CLASS-165-76 ..... c 34 N83-28356 *
US-PATENT-CLASS-165-76 ..... c 37 N86-32736 * #
US-PATENT-CLASS-165-78 ..... c 34 N80-21999 *
US-PATENT-CLASS-165-80E ..... c 34 N83-34221 *
US-PATENT-CLASS-165-81 ..... c 34 N88-29132 *
US-PATENT-CLASS-165-81 ..... c 25 N90-11824 *
US-PATENT-CLASS-165-83 ..... c 25 N90-11824 *
US-PATENT-CLASS-165-86 ..... c 15 N71-26811 *
US-PATENT-CLASS-165-86 ..... c 33 N71-29046 *
US-PATENT-CLASS-165-904 ..... c 35 N89-12048 *#
US-PATENT-CLASS-165-905 ..... c 34 N88-29133 *
US-PATENT-CLASS-165-905 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-905 ..... c 27 N90-23541 *
US-PATENT-CLASS-165-96 ..... c 33 N70-36847 *
US-PATENT-CLASS-165-96 ..... c 33 N71-22890 *
US-PATENT-CLASS-165-96 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-96 ..... c 33 N73-32818 *
US-PATENT-CLASS-165-96 ..... c 34 N78-17337 *
US-PATENT-CLASS-165-96 ..... c 34 N84-14461 *
US-PATENT-CLASS-165-96 ..... c 31 N89-12785 *
US-PATENT-CLASS-165-96 ..... c 34 N90-21999 *
US-PATENT-CLASS-166-222 ..... c 43 N81-26509 *
US-PATENT-CLASS-166-248 ..... c 43 N78-14452 *
US-PATENT-CLASS-166-259 ..... c 43 N78-14452 *
US-PATENT-CLASS-166-267 ..... c 25 N82-23262 *
US-PATENT-CLASS-166-303 ..... c 25 N82-23262 *
US-PATENT-CLASS-166-343 ..... c 18 N90-20126 *
US-PATENT-CLASS-166-63 ..... c 46 N79-22679 *
US-PATENT-CLASS-166-77 ..... c 43 N81-26509 *
US-PATENT-CLASS-169-28 ..... c 12 N72-21310 *
US-PATENT-CLASS-169-36 ..... c 12 N72-21310 *
US-PATENT-CLASS-169-47 ..... c 25 N83-36110 *
US-PATENT-CLASS-169-62 ..... c 31 N81-14137 *
US-PATENT-CLASS-169-70 ..... c 31 N81-14137 *
US-PATENT-CLASS-173-131 ..... c 15 N73-13463 *
US-PATENT-CLASS-173-132 ..... c 37 N76-18454 *
US-PATENT-CLASS-174-DIG.6 ..... c 26 N73-26752 *
US-PATENT-CLASS-174-DIG.6 ..... c 26 N73-32571 *
US-PATENT-CLASS-174-DIG.8 ..... c 33 N74-22965 *
US-PATENT-CLASS-174-108R ..... c 09 N72-22198 *
US-PATENT-CLASS-174-110.3 ..... c 14 N71-27198 *
US-PATENT-CLASS-174-111 ..... c 33 N74-27983 *
US-PATENT-CLASS-174-115 ..... c 09 N70-38201 *
US-PATENT-CLASS-174-117FF ..... c 09 N72-22198 *
US-PATENT-CLASS-174-126CP ..... c 26 N73-32571 *
US-PATENT-CLASS-174-142 ..... c 33 N80-18266 *
US-PATENT-CLASS-174-145 ..... c 33 N76-16332 *
US-PATENT-CLASS-174-148 ..... c 33 N76-16332 *
US-PATENT-CLASS-174-15CA ..... c 31 N79-17029 *
US-PATENT-CLASS-174-15C ..... c 33 N74-27983 *
US-PATENT-CLASS-174-18 ..... c 09 N89-21542 * #
US-PATENT-CLASS-174-28 ..... c 07 N71-27191 *
US-PATENT-CLASS-174-29 ..... c 33 N74-27983 *
US-PATENT-CLASS-174-35 ..... c 07 N71-19436 *
US-PATENT-CLASS-174-36 ..... c 09 N72-22198 *
US-PATENT-CLASS-174-52-PE ..... c 33 N88-23941 *
US-PATENT-CLASS-174-52-R ..... c 33 N88-23941 *
US-PATENT-CLASS-174-52-S ..... c 33 N88-23941 *
US-PATENT-CLASS-174-52S ..... c 15 N73-14460 *
US-PATENT-CLASS-174-68.5 ..... c 15 N70-41980 *
US-PATENT-CLASS-174-69 ..... c 33 N74-22965 *

US-PATENT-CLASS-174-70R ..... c 33 N74-22965 *
US-PATENT-CLASS-174-72 ..... c 03 N89-21539 * #
US-PATENT-CLASS-174-73R ..... c 33 N80-18266 *
US-PATENT-CLASS-174-84 ..... c 15 N72-17455 *
US-PATENT-CLASS-175-1 ..... c 46 N79-22679 *
US-PATENT-CLASS-175-26 ..... c 15 N73-32362 *
US-PATENT-CLASS-175-310 ..... c 15 N70-42034 *
US-PATENT-CLASS-175-323 ..... c 14 N89-21923 * #
US-PATENT-CLASS-175-45 ..... c 35 N84-33768 *
US-PATENT-CLASS-175-78 ..... c 46 N80-10709 *
US-PATENT-CLASS-176-11 ..... c 24 N72-33681 *
US-PATENT-CLASS-176-11 ..... c 25 N76-27383 *
US-PATENT-CLASS-176-11 ..... c 25 N76-29379 *
US-PATENT-CLASS-176-11 ..... c 25 N78-27226 *
US-PATENT-CLASS-176-14 ..... c 25 N76-29379 *
US-PATENT-CLASS-176-169 ..... c 22 N73-32526 *
US-PATENT-CLASS-176-16 ..... c 25 N76-27383 *
US-PATENT-CLASS-176-16 ..... c 25 N76-29379 *
US-PATENT-CLASS-176-16 ..... c 25 N78-27226 *
US-PATENT-CLASS-176-22 ..... c 73 N78-28913 *
US-PATENT-CLASS-176-33 ..... c 73 N78-28913 *
US-PATENT-CLASS-176-39 ..... c 73 N78-19920 *
US-PATENT-CLASS-176-39 ..... c 73 N78-28913 *
US-PATENT-CLASS-176-3 ..... c 75 N75-13625 *
US-PATENT-CLASS-176-45 ..... c 22 N71-28759 *
US-PATENT-CLASS-176-66G ..... c 22 N72-20597 *
US-PATENT-CLASS-177-147 ..... c 35 N85-20294 *
US-PATENT-CLASS-177-1 ..... c 35 N77-19395 *
US-PATENT-CLASS-177-200 ..... c 35 N74-26945 *
US-PATENT-CLASS-177-208 ..... c 35 N77-19395 *
US-PATENT-CLASS-177-210 ..... c 14 N71-10773 *
US-PATENT-CLASS-177-211 ..... c 35 N74-26945 *
US-PATENT-CLASS-177-246 ..... c 35 N74-26945 *
US-PATENT-CLASS-177-260 ..... c 35 N85-20294 *
US-PATENT-CLASS-178-DIG.12 . c 07 N72-12081 *
US-PATENT-CLASS-178-DIG.12 . c 32 N75-21485 *
US-PATENT-CLASS-178-DIG.1 ... c 36 N74-20009 *
US-PATENT-CLASS-178-DIG.1 ... c 33 N75-30431 *
US-PATENT-CLASS-178-DIG.1 ... c 45 N76-17656 *
US-PATENT-CLASS-178-DIG.20 . c 18 N76-14186 *
US-PATENT-CLASS-178-DIG.20 . c 23 N72-27726 *
US-PATENT-CLASS-178-DIG.20 . c 35 N75-19813 *
US-PATENT-CLASS-178-DIG.21 . c 18 N72-13437 *
US-PATENT-CLASS-178-DIG.23 . c 07 N73-30115 *
US-PATENT-CLASS-178-DIG.25 . c 74 N75-25706 *
US-PATENT-CLASS-178-DIG.28 . c 08 N72-22164 *
US-PATENT-CLASS-178-DIG.29 . c 35 N75-25123 *
US-PATENT-CLASS-178-DIG.32 . c 71 N74-21014 *
US-PATENT-CLASS-178-DIG.35 . c 09 N76-24280 *
US-PATENT-CLASS-178-DIG.36 . c 08 N72-22164 *
US-PATENT-CLASS-178-DIG.6 ... c 10 N73-13235 *
US-PATENT-CLASS-178-DIG.8 ... c 14 N72-25412 *
US-PATENT-CLASS-178-DIG.8 ... c 45 N76-17656 *
US-PATENT-CLASS-178-15 ..... c 33 N75-19512 *
US-PATENT-CLASS-178-1? ..... c 10 N73-32143 *
US-PATENT-CLASS-178-22.16 ... c 32 N82-31583 *
US-PATENT-CLASS-178-22.17 ... c 32 N82-31583 *
US-PATENT-CLASS-178-5.2R ... c 09 N71-29818 *
US-PATENT-CLASS-178-5.2R ... c 07 N72-17109 *
US-PATENT-CLASS-178-5.4 ..... c 07 N72-17109 *
US-PATENT-CLASS-178-5.8R ... c 71 N74-21014 *
US-PATENT-CLASS-178-50 ..... c 08 N72-18184 *
US-PATENT-CLASS-178-50 ..... c 08 N72-25206 *
US-PATENT-CLASS-178-52 ..... c 08 N72-22162 *
US-PATENT-CLASS-178-54CF ... c 09 N71-29818 *
US-PATENT-CLASS-178-54PE ... c 09 N71-29818 *
US-PATENT-CLASS-178-58A ... c 32 N75-21486 *
US-PATENT-CLASS-178-58R ... c 32 N80-18252 *
US-PATENT-CLASS-178-6.5 ... c 23 N72-27726 *
US-PATENT-CLASS-178-6.6DD . c 07 N73-30115 *
US-PATENT-CLASS-178-6.6DD . c 35 N74-11283 *
US-PATENT-CLASS-178-6.6 ... c 07 N71-11300 *
US-PATENT-CLASS-178-6.6 ... c 07 N71-26102 *
US-PATENT-CLASS-178-6.7R ... c 35 N74-15831 *
US-PATENT-CLASS-178-6.7 ... c 07 N72-17109 *
US-PATENT-CLASS-178-6.8 ... c 09 N72-22164 *
US-PATENT-CLASS-178-6.8 ... c 14 N72-25412 *
US-PATENT-CLASS-178-6.8 ... c 07 N73-30115 *
US-PATENT-CLASS-178-6.8 ... c 33 N75-30431 *
US-PATENT-CLASS-178-6.8 ... c 45 N76-17656 *
US-PATENT-CLASS-178-66R ... c 32 N75-24981 *
US-PATENT-CLASS-178-68 ..... c 09 N71-25866 *
US-PATENT-CLASS-178-68 ..... c 08 N72-18184 *
US-PATENT-CLASS-178-67 ..... c 09 N70-41961 *
US-PATENT-CLASS-178-67 ..... c 32 N74-26854 *
US-PATENT-CLASS-178-69.1 ... c 32 N78-15323 *
US-PATENT-CLASS-178-69.4R .. c 32 N74-10132 *
US-PATENT-CLASS-178-69.5R .. c 07 N72-20140 *
US-PATENT-CLASS-178-69.5R .. c 32 N75-26195 *
US-PATENT-CLASS-178-69.5R .. c 33 N76-14371 *
US-PATENT-CLASS-178-69.5R .. c 60 N77-19760 *
US-PATENT-CLASS-178-69.5 ... c 07 N71-11281 *
US-PATENT-CLASS-178-69.5 ... c 10 N71-19469 *
US-PATENT-CLASS-178-69.5 ... c 10 N71-25865 *
US-PATENT-CLASS-178-69.5 ... c 10 N71-33407 *
US-PATENT-CLASS-178-69.5 ... c 07 N72-25173 *

US-PATENT-CLASS-178-69.5 ... c 07 N73-13149 *
US-PATENT-CLASS-178-69.5 ... c 09 N73-28084 *
US-PATENT-CLASS-178-69.5 ... c 17 N76-22245 *
US-PATENT-CLASS-178-69A ... c 35 N75-21582 *
US-PATENT-CLASS-178-69C ... c 32 N76-16249 *
US-PATENT-CLASS-178-6 ..... c 07 N71-19433 *
US-PATENT-CLASS-178-6 ..... c 09 N71-19449 *
US-PATENT-CLASS-178-6 ..... c 07 N71-23026 *
US-PATENT-CLASS-178-6 ..... c 07 N71-26579 *
US-PATENT-CLASS-178-6 ..... c 07 N72-12081 *
US-PATENT-CLASS-178-6 ..... c 16 N72-13437 *
US-PATENT-CLASS-178-6 ..... c 10 N73-13235 *
US-PATENT-CLASS-178-6 ..... c 36 N74-20009 *
US-PATENT-CLASS-178-7.1 ... c 07 N71-24612 *
US-PATENT-CLASS-178-7.1 ... c 07 N71-27341 *
US-PATENT-CLASS-178-7.1 ... c 09 N72-17156 *
US-PATENT-CLASS-178-7.1 ... c 32 N74-19790 *
US-PATENT-CLASS-178-7.1 ... c 36 N75-19652 *
US-PATENT-CLASS-178-7.2R .. c 08 N72-22164 *
US-PATENT-CLASS-178-7.2 ... c 14 N70-41807 *
US-PATENT-CLASS-178-7.2 ... c 71 N74-21014 *
US-PATENT-CLASS-178-7.2 ... c 35 N75-25123 *
US-PATENT-CLASS-178-7.3 ... c 07 N71-27341 *
US-PATENT-CLASS-178-7.3 ... c 07 N72-12081 *
US-PATENT-CLASS-178-7.5E ... c 10 N72-31273 *
US-PATENT-CLASS-178-7.6 ... c 36 N74-20009 *
US-PATENT-CLASS-178-7.7 ... c 09 N71-12539 *
US-PATENT-CLASS-178-7.7 ... c 32 N74-20813 *
US-PATENT-CLASS-178-7.89 .. c 09 N76-24280 *
US-PATENT-CLASS-178-7.92 .. c 14 N72-25414 *
US-PATENT-CLASS-178-79 ..... c 32 N75-21486 *
US-PATENT-CLASS-178-88 ..... c 07 N71-12392 *
US-PATENT-CLASS-178-88 ..... c 33 N74-12887 *
US-PATENT-CLASS-178-88 ..... c 32 N74-20809 *
US-PATENT-CLASS-178-88 ..... c 33 N74-27705 *
US-PATENT-CLASS-178-88 ..... c 33 N76-14371 *
US-PATENT-CLASS-178-88 ..... c 32 N76-16249 *
US-PATENT-CLASS-178-88 ..... c 32 N77-10392 *
US-PATENT-CLASS-178-88 ..... c 32 N77-24331 *
US-PATENT-CLASS-179-1DM ... c 71 N79-23753 *
US-PATENT-CLASS-179-1MF ... c 71 N79-23753 *
US-PATENT-CLASS-179-1MN ... c 32 N79-23310 *
US-PATENT-CLASS-179-1P ..... c 10 N73-12244 *
US-PATENT-CLASS-179-1R ..... c 07 N71-33108 *
US-PATENT-CLASS-179-1SA .... c 10 N73-25240 *
US-PATENT-CLASS-179-1SA .... c 32 N76-31372 *
US-PATENT-CLASS-179-1SA .... c 32 N77-30309 *
US-PATENT-CLASS-179-1SP .... c 32 N77-30309 *
US-PATENT-CLASS-179-1VC .... c 07 N71-33108 *
US-PATENT-CLASS-179-100.2A . c 21 N73-13644 *
US-PATENT-CLASS-179-100.2A . c 32 N74-27612 *
US-PATENT-CLASS-179-100.2B . c 32 N74-27612 *
US-PATENT-CLASS-179-100.2CH c 36 N74-13205 *
US-PATENT-CLASS-179-100.2CH c 35 N78-29421 *
US-PATENT-CLASS-179-100.2CH c 35 N79-16246 *
US-PATENT-CLASS-179-100.2C . c 35 N77-21392 *
US-PATENT-CLASS-179-100.2K . c 07 N72-21119 *
US-PATENT-CLASS-179-100.2MD c 35 N74-11283 *
US-PATENT-CLASS-179-100.2T . c 35 N74-11283 *
US-PATENT-CLASS-179-100.2 ... c 09 N89-24329 * #
US-PATENT-CLASS-179-100.2 ... c 09 N71-25866 *
US-PATENT-CLASS-179-100.2 ... c 08 N71-27210 *
US-PATENT-CLASS-179-100.2 ... c 08 N71-27355 *
US-PATENT-CLASS-179-100-2CA c 09 N72-11224 *
US-PATENT-CLASS-179-100-2MD c 09 N72-11224 *
US-PATENT-CLASS-179-107R ... c 33 N78-10375 *
US-PATENT-CLASS-179-15.55R . c 08 N72-11171 *
US-PATENT-CLASS-179-15.55R . c 08 N72-33172 *
US-PATENT-CLASS-179-15AN ... c 07 N73-16121 *
US-PATENT-CLASS-179-15AT ... c 32 N74-30524 *
US-PATENT-CLASS-179-15A .... c 08 N72-22162 *
US-PATENT-CLASS-179-15A .... c 07 N73-26118 *
US-PATENT-CLASS-179-15BA ... c 60 N77-12721 *
US-PATENT-CLASS-179-15BA ... c 32 N80-18252 *
US-PATENT-CLASS-179-15BC ... c 08 N72-25208 *
US-PATENT-CLASS-179-15BC ... c 07 N73-16121 *
US-PATENT-CLASS-179-15BC ... c 32 N74-30523 *
US-PATENT-CLASS-179-15BC ... c 33 N75-26243 *
US-PATENT-CLASS-179-15BL ... c 08 N72-22162 *
US-PATENT-CLASS-179-15BM ... c 07 N73-26118 *
US-PATENT-CLASS-179-15BS ... c 10 N71-33407 *
US-PATENT-CLASS-179-15BS ... c 07 N72-20140 *
US-PATENT-CLASS-179-15BS ... c 07 N73-30115 *
US-PATENT-CLASS-179-15BS ... c 32 N75-26195 *
US-PATENT-CLASS-179-15BS ... c 60 N77-19760 *
US-PATENT-CLASS-179-15BV ... c 07 N72-25172 *
US-PATENT-CLASS-179-15BY ... c 32 N74-30524 *
US-PATENT-CLASS-179-15FD ... c 08 N72-25206 *
US-PATENT-CLASS-179-15FS ... c 07 N73-28012 *
US-PATENT-CLASS-179-15 ..... c 07 N89-39978 * #
US-PATENT-CLASS-179-15 ..... c 07 N71-20814 *
US-PATENT-CLASS-179-15 ..... c 07 N71-24621 *
US-PATENT-CLASS-179-15 ..... c 07 N71-24622 *
US-PATENT-CLASS-179-15 ..... c 08 N72-18184 *
US-PATENT-CLASS-179-175.1A . c 14 N73-27379 *
US-PATENT-CLASS-179-175.1A . c 33 N78-10375 *

US-PATENT-CLASS-179-18BC ... c 32 N86-27513 *
US-PATENT-CLASS-179-18GF ... c 33 N82-29538 *
US-PATENT-CLASS-179-1 ... c 07 N71-26181 *
US-PATENT-CLASS-179-1 ... c 31 N71-33160 *
US-PATENT-CLASS-179-27CA ... c 32 N79-23310 *
US-PATENT-CLASS-179-78 ... c 33 N81-27397 *
US-PATENT-CLASS-179-84VF ... c 32 N79-23310 *
US-PATENT-CLASS-179-91R ... c 74 N78-14869 *
US-PATENT-CLASS-18-26 ... c 06 N71-22975 *
US-PATENT-CLASS-18-39 ... c 27 N70-34783 *
US-PATENT-CLASS-18-6 ... c 15 N71-26721 *
US-PATENT-CLASS-180-105E ... c 11 N72-20244 *
US-PATENT-CLASS-180-118 ... c 31 N71-15689 *
US-PATENT-CLASS-180-121 ... c 31 N71-15689 *
US-PATENT-CLASS-180-125 ... c 15 N72-17451 *
US-PATENT-CLASS-180-127 ... c 15 N72-17451 *
US-PATENT-CLASS-180-168 ... c 35 N84-33769 *
US-PATENT-CLASS-180-19.2 ... c 85 N87-21755 *
US-PATENT-CLASS-180-306 ... c 85 N87-21755 *
US-PATENT-CLASS-180-41 ... c 11 N73-26238 *
US-PATENT-CLASS-180-6.5 ... c 11 N73-26238 *
US-PATENT-CLASS-180-7R ... c 11 N73-26238 *
US-PATENT-CLASS-180-79.3 ... c 37 N74-18125 *
US-PATENT-CLASS-180-8.6 ... c 18 N88-23829 *
US-PATENT-CLASS-180-8A ... c 11 N73-26238 *
US-PATENT-CLASS-180-9.2R ... c 11 N73-26238 *
US-PATENT-CLASS-180-9.5 ... c 11 N73-26238 *
US-PATENT-CLASS-181.5R ... c 71 N74-31148 *
US-PATENT-CLASS-181-.5 ... c 11 N71-28779 *
US-PATENT-CLASS-181-0.5 ... c 71 N85-30765 *
US-PATENT-CLASS-181-0.5 ... c 71 N88-24241 *
US-PATENT-CLASS-181-0.5 ... c 31 N90-21215 *
US-PATENT-CLASS-181-102 ... c 39 N80-10507 *
US-PATENT-CLASS-181-102 ... c 31 N80-32584 *
US-PATENT-CLASS-181-105 ... c 39 N80-10507 *
US-PATENT-CLASS-181-106 ... c 46 N79-22679 *
US-PATENT-CLASS-181-115 ... c 46 N79-23555 *
US-PATENT-CLASS-181-117 ... c 46 N79-22679 *
US-PATENT-CLASS-181-120 ... c 46 N79-23555 *
US-PATENT-CLASS-181-121 ... c 35 N84-22933 *
US-PATENT-CLASS-181-148 ... c 71 N79-23753 *
US-PATENT-CLASS-181-190 ... c 71 N79-14871 *
US-PATENT-CLASS-181-213 ... c 71 N79-14871 *
US-PATENT-CLASS-181-213 ... c 07 N83-33884 *
US-PATENT-CLASS-181-214 ... c 07 N81-14999 *
US-PATENT-CLASS-181-214 ... c 71 N82-16800 *
US-PATENT-CLASS-181-222 ... c 71 N79-14871 *
US-PATENT-CLASS-181-286 ... c 24 N90-21822 *
US-PATENT-CLASS-181-290 ... c 24 N90-21822 *
US-PATENT-CLASS-181-293 ... c 71 N79-14871 *
US-PATENT-CLASS-181-33C ... c 07 N74-32418 *
US-PATENT-CLASS-181-33F ... c 07 N74-32418 *
US-PATENT-CLASS-181-33HB ... c 07 N74-27490 *
US-PATENT-CLASS-181-33HC ... c 07 N74-33218 *
US-PATENT-CLASS-181-33HC ... c 07 N[illegible]-18117 *
US-PATENT-CLASS-181-33H ... c 07 N74-32418 *
US-PATENT-CLASS-181-33L ... c 07 N74-32418 *
US-PATENT-CLASS-181-42 ... c 07 N74-32418 *
US-PATENT-CLASS-181-43 ... c 07 N74-15453 *
US-PATENT-CLASS-181-52 ... c 26 N70-41582 *
US-PATENT-CLASS-182-103 ... c 18 N89-12621 *
US-PATENT-CLASS-182-10 ... c 15 N71-27067 *
US-PATENT-CLASS-182-152 ... c 31 N87-25492 *
US-PATENT-CLASS-182-178 ... c 39 N76-31562 *
US-PATENT-CLASS-182-191 ... c 06 N71-11199 *
US-PATENT-CLASS-182-223 ... c 54 N87-29118 *
US-PATENT-CLASS-182-5 ... c 15 N73-25512 *
US-PATENT-CLASS-182-62.5 ... c 31 N81-27324 *
US-PATENT-CLASS-182-63 ... c 54 N87-29118 *
US-PATENT-CLASS-182-82 ... c 54 N87-29118 *
US-PATENT-CLASS-184-1 ... c 15 N71-23048 *
US-PATENT-CLASS-185-38 ... c 37 N78-16369 *
US-PATENT-CLASS-187-1 ... c 15 N72-25453 *
US-PATENT-CLASS-187-20 ... c 15 N72-25453 *
US-PATENT-CLASS-187-7.1 ... c 07 N71-24742 *
US-PATENT-CLASS-187-95 ... c 15 N72-25453 *
US-PATENT-CLASS-188-1B ... c 15 N72-20443 *
US-PATENT-CLASS-188-1B ... c 19 N78-22284 *
US-PATENT-CLASS-188-1C ... c 15 N72-17450 *
US-PATENT-CLASS-188-1C ... c 15 N72-20443 *
US-PATENT-CLASS-188-1C ... c 15 N73-30460 *
US-PATENT-CLASS-188-1C ... c 11 N73-32152 *
US-PATENT-CLASS-188-1C ... c 37 N79-10420 *
US-PATENT-CLASS-188-103 ... c 15 N71-27146 *
US-PATENT-CLASS-188-129 ... c 15 N72-17450 *
US-PATENT-CLASS-188-134 ... c 37 N81-15364 *
US-PATENT-CLASS-188-151A ... c 44 N79-14527 *
US-PATENT-CLASS-188-163 ... c 37 N74-26976 *
US-PATENT-CLASS-188-171 ... c 37 N74-26976 *
US-PATENT-CLASS-188-180 ... c 37 N81-15364 *
US-PATENT-CLASS-188-184 ... c 37 N81-15364 *
US-PATENT-CLASS-188-1 ... c 15 N70-34881 *
US-PATENT-CLASS-188-1 ... c 15 N70-39601 *
US-PATENT-CLASS-188-1 ... c 15 N70-40354 *
US-PATENT-CLASS-188-1 ... c 14 N71-17626 *
US-PATENT-CLASS-188-1 ... c 15 N71-22977 *
US-PATENT-CLASS-188-1 ... c 14 N71-23092 *
US-PATENT-CLASS-188-1 ... c 15 N71-26243 *
US-PATENT-CLASS-188-1 ... c 15 N71-27146 *
US-PATENT-CLASS-188-1 ... c 15 N71-27169 *
US-PATENT-CLASS-188-218-XL ... c 37 N86-29181 *
US-PATENT-CLASS-188-251-A ... c 37 N86-29181 *
US-PATENT-CLASS-188-266 ... c 15 N73-25513 *
US-PATENT-CLASS-188-268 ... c 15 N72-20443 *
US-PATENT-CLASS-188-269 ... c 44 N79-14527 *
US-PATENT-CLASS-188-291 ... c 54 N77-21844 *
US-PATENT-CLASS-188-371 ... c 37 N82-18601 *
US-PATENT-CLASS-188-373 ... c 37 N86-23982 *
US-PATENT-CLASS-188-66.1 ... c 15 N73-25512 *
US-PATENT-CLASS-188-65.5 ... c 15 N71-27067 *
US-PATENT-CLASS-188-67 ... c 12 N71-16894 *
US-PATENT-CLASS-188-68 ... c 15 N71-26611 *
US-PATENT-CLASS-188-36 ... c 15 N70-36947 *
US-PATENT-CLASS-19-205 ... c 37 N76-18456 *
US-PATENT-CLASS-191-12.2-R ... c 33 N86-20669 *
US-PATENT-CLASS-192-43.1 ... c 15 N71-17805 *
US-PATENT-CLASS-192-46 ... c 37 N87-17037 *
US-PATENT-CLASS-192-67R ... c 37 N87-17037 *
US-PATENT-CLASS-194-82.26 ... c 37 N90-21390 *
US-PATENT-CLASS-194-82.29 ... c 37 N90-21390 *
US-PATENT-CLASS-194-902 ... c 37 N89-13785 *
US-PATENT-CLASS-195-1.8 ... c 51 N77-25769 *
US-PATENT-CLASS-195-1.8 ... c 51 N79-10694 *
US-PATENT-CLASS-195-1.8 ... c 52 N79-14749 *
US-PATENT-CLASS-195-103.5K ... c 51 N77-22794 *
US-PATENT-CLASS-195-103.5K ... c 52 N79-14750 *
US-PATENT-CLASS-195-103.5L ... c 52 N79-14750 *
US-PATENT-CLASS-195-103.5R ... c 06 N72-25149 *
US-PATENT-CLASS-195-103.5R ... c 25 N75-12086 *
US-PATENT-CLASS-195-103.5R ... c 35 N75-27330 *
US-PATENT-CLASS-195-103.5R ... c 35 N75-33368 *
US-PATENT-CLASS-195-103.5R ... c 51 N76-29891 *
US-PATENT-CLASS-195-103.5R ... c 51 N77-22794 *
US-PATENT-CLASS-195-103.5R ... c 25 N79-22235 *
US-PATENT-CLASS-195-120 ... c 51 N75-13502 *
US-PATENT-CLASS-195-120 ... c 35 N75-27330 *
US-PATENT-CLASS-195-127 ... c 15 N72-21485 *
US-PATENT-CLASS-195-127 ... c 11 N72-25264 *
US-PATENT-CLASS-195-127 ... c 14 N72-25413 *
US-PATENT-CLASS-195-127 ... c 16 N73-20514 *
US-PATENT-CLASS-195-127 ... c 06 N73-32011 *
US-PATENT-CLASS-195-127 ... c 35 N75-12272 *
US-PATENT-CLASS-195-127 ... c 51 N75-13502 *
US-PATENT-CLASS-195-127 ... c 35 N75-27330 *
US-PATENT-CLASS-195-127 ... c 25 N79-22235 *
US-PATENT-CLASS-195-127 ... c 25 N79-24073 *
US-PATENT-CLASS-195-141 ... c 35 N75-27330 *
US-PATENT-CLASS-195-26N ... c 06 N72-25149 *
US-PATENT-CLASS-195-96R ... c 06 N73-27086 *
US-PATENT-CLASS-195-98 ... c 04 N69-27487 * #
US-PATENT-CLASS-195-99 ... c 06 N71-17705 *
US-PATENT-CLASS-197-198 ... c 37 N77-19457 *
US-PATENT-CLASS-197-199 ... c 37 N77-19457 *
US-PATENT-CLASS-198-847 ... c 37 N80-32717 *
US-PATENT-CLASS-198-848 ... c 37 N80-32717 *
US-PATENT-CLASS-1 ... c 14 N71-27005 *
US-PATENT-CLASS-2-115 ... c 06 N72-25119 *
US-PATENT-CLASS-2-14 ... c 06 N71-23096 *
US-PATENT-CLASS-2-161R ... c 54 N84-23113 *
US-PATENT-CLASS-2-161R ... c 54 N84-28484 *
US-PATENT-CLASS-2-161 ... c 54 N78-17677 *
US-PATENT-CLASS-2-164 ... c 54 N84-28464 *
US-PATENT-CLASS-2-167 ... c 54 N84-23113 *
US-PATENT-CLASS-2-167 ... c 54 N84-28484 *
US-PATENT-CLASS-2-2.1A ... c 06 N72-22092 *
US-PATENT-CLASS-2-2.1A ... c 06 N73-25125 *
US-PATENT-CLASS-2-2.1A ... c 06 N73-32012 *
US-PATENT-CLASS-2-2.1A ... c 54 N74-32546 *
US-PATENT-CLASS-2-2.1A ... c 54 N77-32721 *
US-PATENT-CLASS-2-2.1A ... c 54 N78-17675 *
US-PATENT-CLASS-2-2.1A ... c 54 N78-31735 *
US-PATENT-CLASS-2-2.1A ... c 54 N78-31736 *
US-PATENT-CLASS-2-2.1A ... c 54 N79-24851 *
US-PATENT-CLASS-2-2.1A ... c 54 N86-29618 *
US-PATENT-CLASS-2-2.1A ... c 54 N86-29619 *
US-PATENT-CLASS-2-2.1A ... c 54 N86-29620 *
US-PATENT-CLASS-2-2.1A ... c 54 N86-29507 * #
US-PATENT-CLASS-2-2.1A ... c 18 N90-16980 *
US-PATENT-CLASS-2-2.1R ... c 54 N86-29618 *
US-PATENT-CLASS-2-2.1R ... c 54 N86-29619 *
US-PATENT-CLASS-2-2.1 ... c 06 N71-11194 *
US-PATENT-CLASS-2-2.1 ... c 06 N71-11196 *
US-PATENT-CLASS-2-2.1 ... c 06 N71-12336 *
US-PATENT-CLASS-2-2.1 ... c 06 N71-12344 *
US-PATENT-CLASS-2-2.1 ... c 06 N71-23161 *
US-PATENT-CLASS-2-2.1 ... c 06 N71-24823 *
US-PATENT-CLASS-2-2.1 ... c 06 N71-24730 *
US-PATENT-CLASS-2-2.1 ... c 06 N72-20096 *
US-PATENT-CLASS-2-2.1 ... c 06 N72-20098 *
US-PATENT-CLASS-2-2.1 ... c 06 N72-25119 *
US-PATENT-CLASS-2-2.1 ... c 06 N73-26071 *
US-PATENT-CLASS-2-2.1 ... c 34 N78-17337 *
US-PATENT-CLASS-2-2.1 ... c 54 N78-17678 *
US-PATENT-CLASS-2-2.1 ... c 54 N78-18761 *
US-PATENT-CLASS-2-201 ... c 54 N89-29953 *
US-PATENT-CLASS-2-275 ... c 18 N71-26285 *
US-PATENT-CLASS-2-6 ... c 05 N71-26333 *
US-PATENT-CLASS-2-8 ... c 54 N78-17660 *
US-PATENT-CLASS-2-81 ... c 18 N71-26285 *
US-PATENT-CLASS-2-81 ... c 05 N73-32012 *
US-PATENT-CLASS-2-82 ... c 54 N74-32546 *
US-PATENT-CLASS-200-114 ... c 33 N79-33393 *
US-PATENT-CLASS-200-129 ... c 33 N75-27249 *
US-PATENT-CLASS-200-152 ... c 09 N71-19810 *
US-PATENT-CLASS-200-153S ... c 33 N80-18285 *
US-PATENT-CLASS-200-157 ... c 09 N86-27288 *
US-PATENT-CLASS-200-19 ... c 09 N70-39915 *
US-PATENT-CLASS-200-304 ... c 33 N80-18285 *
US-PATENT-CLASS-200-39 ... c 03 N70-36713 *
US-PATENT-CLASS-200-48 ... c 74 N79-12890 *
US-PATENT-CLASS-200-61.05 ... c 25 N86-27431 *
US-PATENT-CLASS-200-61.42 ... c 09 N71-12518 *
US-PATENT-CLASS-200-61.45 ... c 14 N70-41812 *
US-PATENT-CLASS-200-61 ... c 74 N79-12890 *
US-PATENT-CLASS-200-64 ... c 15 N72-17455 *
US-PATENT-CLASS-200-6 ... c 10 N71-15809 *
US-PATENT-CLASS-200-6 ... c 09 N71-16089 *
US-PATENT-CLASS-200-61.9M ... c 09 N72-20199 *
US-PATENT-CLASS-200-61R ... c 09 N72-22204 *
US-PATENT-CLASS-200-62C ... c 09 N72-22204 *
US-PATENT-CLASS-200-62 ... c 10 N71-23663 *
US-PATENT-CLASS-200-83N ... c 35 N75-15631 *
US-PATENT-CLASS-200-83 ... c 33 N79-33392 *
US-PATENT-CLASS-201-10 ... c 27 N81-17261 *
US-PATENT-CLASS-201-17 ... c 44 N78-31527 *
US-PATENT-CLASS-201-17 ... c 25 N81-33246 *
US-PATENT-CLASS-201-17 ... c 25 N82-29371 *
US-PATENT-CLASS-201-17 ... c 25 N83-31743 *
US-PATENT-CLASS-201-17 ... c 25 N85-35253 *
US-PATENT-CLASS-201-25 ... c 27 N81-17261 *
US-PATENT-CLASS-201-8 ... c 27 N81-17261 *
US-PATENT-CLASS-202-118 ... c 31 N81-15154 *
US-PATENT-CLASS-202-182 ... c 05 N71-11207 *
US-PATENT-CLASS-202-234 ... c 15 N71-23086 *
US-PATENT-CLASS-203-12 ... c 25 N82-28368 *
US-PATENT-CLASS-203-90 ... c 25 N86-23846 *
US-PATENT-CLASS-203-91 ... c 25 N86-23846 *
US-PATENT-CLASS-203-98 ... c 25 N86-23846 *
US-PATENT-CLASS-204-DIG.11 ... c 25 N77-32255 *
US-PATENT-CLASS-204-DIG.3 ... c 25 N84-12262 *
US-PATENT-CLASS-204-DIG.3 ... c 44 N84-23019 *
US-PATENT-CLASS-204-17 ... c 25 N79-22235 *
US-PATENT-CLASS-204-17 ... c 51 N81-29698 *
US-PATENT-CLASS-204-17 ... c 25 N82-12196 *
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US-PATENT-CLASS-204-129.75 ... c 31 N83-19947 *
US-PATENT-CLASS-204-129 ... c 28 N81-24280 *
US-PATENT-CLASS-204-129 ... c 25 N84-12262 *
US-PATENT-CLASS-204-129 ... c 44 N84-23019 *
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US-PATENT-CLASS-204-157.1H ... c 37 N76-18458 *
US-PATENT-CLASS-204-157.1R ... c 25 N77-32255 *
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US-PATENT-CLASS-204-157.1R ... c 44 N79-11470 *
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US-PATENT-CLASS-204-157.22 ... c 25 N86-24732 *
US-PATENT-CLASS-204-157.51 ... c 25 N90-20154 *
US-PATENT-CLASS-204-158R ... c 25 N77-32255 *
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US-PATENT-CLASS-204-159.14 ... c 27 N80-32516 *
US-PATENT-CLASS-204-159.15 ... c 27 N80-26446 *
US-PATENT-CLASS-204-159.19 ... c 27 N80-26446 *
US-PATENT-CLASS-204-162R ... c 25 N77-32255 *
US-PATENT-CLASS-204-164 ... c 26 N75-32229 *
US-PATENT-CLASS-204-168 ... c 24 N71-25656 *
US-PATENT-CLASS-204-18 ... c 24 N77-19171 *
US-PATENT-CLASS-204-171 ... c 27 N80-23452 *
US-PATENT-CLASS-204-175 ... c 26 N78-32229 *
US-PATENT-CLASS-204-177 ... c 25 N75-12087 *
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US-PATENT-CLASS-204-180G ... c 25 N78-14104 *
US-PATENT-CLASS-204-180G ... c 25 N79-14189 *
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US-PATENT-CLASS-204-180P ... c 54 N78-14784 *
US-PATENT-CLASS-204-180R ... c 25 N74-26948 *
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US-PATENT-CLASS-204-192.23 ... c 26 N87-25455 *
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US-PATENT-CLASS-204-192.31 ... c 26 N88-14179 *

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US-PATENT-CLASS-204-192-D ... c 27 N86-19458 *
US-PATENT-CLASS-204-192-R ... c 27 N86-19458 *
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US-PATENT-CLASS-204-192C ... c 26 N82-30371 *
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US-PATENT-CLASS-204-192C ... c 24 N85-21287 *
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US-PATENT-CLASS-204-195W ... c 35 N78-25391 *
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US-PATENT-CLASS-204-20 ..... c 18 N71-16210 *
US-PATENT-CLASS-204-222 ..... c 31 N74-23086 *
US-PATENT-CLASS-204-224 ..... c 37 N80-14386 *
US-PATENT-CLASS-204-242 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-242 ..... c 25 N84-12282 *
US-PATENT-CLASS-204-252 ..... c 29 N81-24280 *
US-PATENT-CLASS-204-263 ..... c 14 N71-29933 *
US-PATENT-CLASS-204-263 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-264 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-266 ..... c 29 N81-24280 *
US-PATENT-CLASS-204-266 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-267 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-275 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-276 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-278 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-278 ..... c 25 N84-12282 *
US-PATENT-CLASS-204-278 ..... c 44 N84-23019 *
US-PATENT-CLASS-204-279 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-290R ... c 25 N83-13187 *
US-PATENT-CLASS-204-290 ..... c 44 N84-23019 *
US-PATENT-CLASS-204-296 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-290F ... c 29 N81-24280 *
US-PATENT-CLASS-204-290F ... c 44 N82-29710 *
US-PATENT-CLASS-204-290R ... c 33 N75-27252 *
US-PATENT-CLASS-204-290R ... c 29 N81-24280 *
US-PATENT-CLASS-204-290R ... c 44 N82-29710 *
US-PATENT-CLASS-204-290R ... c 25 N84-12282 *
US-PATENT-CLASS-204-290 ..... c 44 N84-29205 *
US-PATENT-CLASS-204-291 ..... c 29 N81-24280 *
US-PATENT-CLASS-204-292 ..... c 25 N79-10225 *
US-PATENT-CLASS-204-296 ..... c 15 N70-34867 *
US-PATENT-CLASS-204-296 ..... c 09 N71-26701 *
US-PATENT-CLASS-204-296 ..... c 15 N72-32487 *
US-PATENT-CLASS-204-296 ..... c 37 N75-19684 *
US-PATENT-CLASS-204-298 ..... c 27 N86-32569 *
US-PATENT-CLASS-204-298 ..... c 31 N86-32587 *
US-PATENT-CLASS-204-298 ..... c 31 N87-21190 *
US-PATENT-CLASS-204-298-R ... c 25 N88-23845 *
US-PATENT-CLASS-204-299R ... c 25 N79-14104 *
US-PATENT-CLASS-204-299R ... c 29 N79-14169 *
US-PATENT-CLASS-204-299R ... c 37 N80-14397 *
US-PATENT-CLASS-204-299R ... c 51 N80-18715 *
US-PATENT-CLASS-204-299R ... c 25 N83-10126 *
US-PATENT-CLASS-204-299R ... c 25 N83-13187 *
US-PATENT-CLASS-204-299 ..... c 34 N74-27744 *
US-PATENT-CLASS-204-299 ..... c 26 N79-10163 *
US-PATENT-CLASS-204-301 ..... c 54 N78-14784 *
US-PATENT-CLASS-204-305 ..... c 03 N71-24719 *
US-PATENT-CLASS-204-30 ..... c 09 N71-29691 *
US-PATENT-CLASS-204-32A ..... c 33 N77-26365 *
US-PATENT-CLASS-204-32R ..... c 44 N76-14595 *

US-PATENT-CLASS-204-324 ..... c 33 N73-18918 *
US-PATENT-CLASS-204-325 ..... c 33 N73-18918 *
US-PATENT-CLASS-204-328 ..... c 33 N73-18918 *
US-PATENT-CLASS-204-32 ..... c 44 N79-11489 *
US-PATENT-CLASS-204-33 ..... c 17 N71-25803 *
US-PATENT-CLASS-204-33 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-33 ..... c 44 N79-11489 *
US-PATENT-CLASS-204-33 ..... c 44 N83-34449 *
US-PATENT-CLASS-204-35N ..... c 27 N83-29388 *
US-PATENT-CLASS-204-35N ..... c 44 N83-34449 *
US-PATENT-CLASS-204-37.6 ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-37R ..... c 44 N79-11489 *
US-PATENT-CLASS-204-37R ..... c 27 N83-29388 *
US-PATENT-CLASS-204-37 ..... c 33 N71-29151 *
US-PATENT-CLASS-204-38A ..... c 44 N76-14595 *
US-PATENT-CLASS-204-38D ..... c 44 N79-11489 *
US-PATENT-CLASS-204-38D ..... c 27 N82-33521 *
US-PATENT-CLASS-204-38 ..... c 17 N71-24830 *
US-PATENT-CLASS-204-40 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-40 ..... c 24 N77-19171 *
US-PATENT-CLASS-204-42 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-430 ..... c 35 N85-29212 *
US-PATENT-CLASS-204-49 ..... c 15 N72-25452 *
US-PATENT-CLASS-204-49 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-56R ..... c 44 N83-10494 *
US-PATENT-CLASS-204-56R ..... c 27 N83-29388 *
US-PATENT-CLASS-204-56R ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-59 ..... c 15 N72-21486 *
US-PATENT-CLASS-204-9 ..... c 20 N74-32919 *
US-PATENT-CLASS-204-9 ..... c 24 N77-19171 *
US-PATENT-CLASS-204/298 ..... c 27 N86-19458 *
US-PATENT-CLASS-2041-196B .. c 25 N79-22235 *
US-PATENT-CLASS-205-343 ..... c 35 N75-30502 *
US-PATENT-CLASS-206-0.7 ..... c 31 N89-29578 *
US-PATENT-CLASS-206-439 ..... c 52 N79-14749 *
US-PATENT-CLASS-206-447 ..... c 27 N84-14323 *
US-PATENT-CLASS-206-582 ..... c 27 N84-14323 *
US-PATENT-CLASS-206-10 ..... c 25 N79-11152 *
US-PATENT-CLASS-206-10 ..... c 23 N84-16255 *
US-PATENT-CLASS-206-10 ..... c 25 N84-22709 *
US-PATENT-CLASS-206-11 ..... c 25 N86-25428 *
US-PATENT-CLASS-206-241 ..... c 25 N82-23262 *
US-PATENT-CLASS-206-8LE ..... c 23 N84-16255 *
US-PATENT-CLASS-206-8LE ..... c 25 N84-22709 *
US-PATENT-CLASS-206-8 ..... c 25 N79-11152 *
US-PATENT-CLASS-206-10 ..... c 15 N71-20440 *
US-PATENT-CLASS-209-127R ... c 35 N76-22509 *
US-PATENT-CLASS-209-250 ..... c 37 N76-18456 *
US-PATENT-CLASS-209-300 ..... c 37 N76-18456 *
US-PATENT-CLASS-209-305 ..... c 37 N76-18456 *
US-PATENT-CLASS-209-349 ..... c 15 N72-22483 *
US-PATENT-CLASS-209-422 ..... c 71 N85-30765 *
US-PATENT-CLASS-209-638 ..... c 71 N85-30765 *
US-PATENT-CLASS-21-207 ..... c 17 N71-16360 *
US-PATENT-CLASS-210-DIG.23 . c 52 N79-14749 *
US-PATENT-CLASS-210-DIG.27 . c 27 N77-31308 *
US-PATENT-CLASS-210-103 ..... c 06 N72-27102 *
US-PATENT-CLASS-210-104 ..... c 06 N72-27102 *
US-PATENT-CLASS-210-109 ..... c 34 N79-24285 *
US-PATENT-CLASS-210-110 ..... c 06 N72-27102 *
US-PATENT-CLASS-210-137 ..... c 06 N72-27102 *
US-PATENT-CLASS-210-142 ..... c 34 N79-24285 *
US-PATENT-CLASS-210-151 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-186 ..... c 37 N80-10494 *
US-PATENT-CLASS-210-199 ..... c 12 N72-25292 *
US-PATENT-CLASS-210-192 ..... c 54 N78-14784 *
US-PATENT-CLASS-210-205 ..... c 29 N80-21209 *
US-PATENT-CLASS-210-212 ..... c 03 N72-20033 *
US-PATENT-CLASS-210-222 ..... c 35 N79-12390 *
US-PATENT-CLASS-210-22 ..... c 52 N80-14887 *
US-PATENT-CLASS-210-23F ..... c 51 N79-10683 *
US-PATENT-CLASS-210-23H ..... c 27 N80-23452 *
US-PATENT-CLASS-210-234 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-24R ..... c 27 N81-14078 *
US-PATENT-CLASS-210-247 ..... c 29 N80-21209 *
US-PATENT-CLASS-210-24 ..... c 27 N77-30236 *
US-PATENT-CLASS-210-24 ..... c 25 N81-18244 *
US-PATENT-CLASS-210-257.1 ... c 29 N80-21209 *
US-PATENT-CLASS-210-259 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-262 ..... c 37 N87-17035 *
US-PATENT-CLASS-210-28 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-304 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-314 ..... c 28 N70-41447 *
US-PATENT-CLASS-210-321.1 ... c 25 N82-21269 *
US-PATENT-CLASS-210-321.6 ... c 29 N80-21209 *
US-PATENT-CLASS-210-321B .... c 52 N80-14887 *
US-PATENT-CLASS-210-333 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-340 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-340 ..... c 37 N80-10494 *
US-PATENT-CLASS-210-340 ..... c 29 N80-21209 *
US-PATENT-CLASS-210-366 ..... c 51 N80-17252 *
US-PATENT-CLASS-210-40 ..... c 27 N77-31308 *
US-PATENT-CLASS-210-40 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-40 ..... c 46 N82-11834 *
US-PATENT-CLASS-210-411 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-414 ..... c 51 N80-17252 *

US-PATENT-CLASS-210-425 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-429 ..... c 37 N76-14483 *
US-PATENT-CLASS-210-433M ... c 51 N79-10680 *
US-PATENT-CLASS-210-445 ..... c 15 N72-11389 *
US-PATENT-CLASS-210-45 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-500.25 .. c 31 N88-29052 *
US-PATENT-CLASS-210-500.35 .. c 31 N88-29052 *
US-PATENT-CLASS-210-500M ... c 27 N80-23452 *
US-PATENT-CLASS-210-500M ... c 25 N81-17187 *
US-PATENT-CLASS-210-900 ..... c 25 N75-12087 *
US-PATENT-CLASS-210-90 ..... c 45 N79-12584 *
US-PATENT-CLASS-210-512.1 ... c 35 N90-22024 *
US-PATENT-CLASS-210-512 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-54 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-57 ..... c 45 N80-14879 *
US-PATENT-CLASS-210-602 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-605 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-80 ..... c 45 N79-12584 *
US-PATENT-CLASS-210-817 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-63R ..... c 25 N78-10225 *
US-PATENT-CLASS-210-63R ..... c 45 N79-12584 *
US-PATENT-CLASS-210-63Z ..... c 45 N80-14579 *
US-PATENT-CLASS-210-639 ..... c 31 N88-29052 *
US-PATENT-CLASS-210-653 ..... c 31 N88-29052 *
US-PATENT-CLASS-210-66 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-67 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-70 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-71 ..... c 25 N78-10225 *
US-PATENT-CLASS-210-73R ..... c 85 N79-17747 *
US-PATENT-CLASS-210-748 ..... c 71 N80-35781 *
US-PATENT-CLASS-210-748 ..... c 35 N84-17555 *
US-PATENT-CLASS-210-82 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-94 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-95 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-96M ..... c 54 N78-14784 *
US-PATENT-CLASS-210-96M ..... c 51 N79-10693 *
US-PATENT-CLASS-210-97 ..... c 35 N90-22024 *
US-PATENT-CLASS-211-126 ..... c 35 N86-20751 *
US-PATENT-CLASS-211-74 ..... c 35 N86-20751 *
US-PATENT-CLASS-212-11 ..... c 32 N71-17609 *
US-PATENT-CLASS-212-134 ..... c 15 N72-11388 *
US-PATENT-CLASS-212-225 ..... c 18 N89-12621 *
US-PATENT-CLASS-212-230 ..... c 37 N86-20789 *
US-PATENT-CLASS-212-257 ..... c 18 N89-12621 *
US-PATENT-CLASS-212-267 ..... c 31 N81-27324 *
US-PATENT-CLASS-213-81 ..... c 37 N77-23483 *
US-PATENT-CLASS-214-1CM ..... c 37 N76-15480 *
US-PATENT-CLASS-214-1BC ..... c 54 N77-32721 *
US-PATENT-CLASS-214-1B ..... c 54 N75-27758 *
US-PATENT-CLASS-214-1CM ..... c 15 N72-28486 *
US-PATENT-CLASS-214-1CM ..... c 54 N75-12616 *
US-PATENT-CLASS-214-1CM ..... c 18 N75-27041 *
US-PATENT-CLASS-214-1CM ..... c 54 N75-27758 *
US-PATENT-CLASS-214-1CM ..... c 37 N77-23483 *
US-PATENT-CLASS-214-1CM ..... c 54 N77-32721 *
US-PATENT-CLASS-214-1CM ..... c 54 N78-17676 *
US-PATENT-CLASS-214-1R ..... c 37 N76-15457 *
US-PATENT-CLASS-214-16.1CB .. c 37 N77-22480 *
US-PATENT-CLASS-214-1 ..... c 32 N70-41367 *
US-PATENT-CLASS-214-90R ..... c 03 N72-25021 *
US-PATENT-CLASS-215-247 ..... c 33 N78-19339 *
US-PATENT-CLASS-219-10.41 ... c 30 N82-26871 *
US-PATENT-CLASS-219-10.43 ... c 31 N85-29063 *
US-PATENT-CLASS-219-10.49R .. c 33 N81-19389 *
US-PATENT-CLASS-219-10.49 ... c 11 N71-15925 *
US-PATENT-CLASS-219-10.49 ... c 31 N85-29063 *
US-PATENT-CLASS-219-10.53 ... c 30 N82-26871 *
US-PATENT-CLASS-219-10.53 ... c 31 N85-29063 *
US-PATENT-CLASS-219-10.67 ... c 30 N81-19389 *
US-PATENT-CLASS-219-10.77 ... c 31 N85-29063 *
US-PATENT-CLASS-219-101 ..... c 15 N73-14488 *
US-PATENT-CLASS-219-101 ..... c 37 N74-11300 *
US-PATENT-CLASS-219-107 ..... c 15 N73-28515 *
US-PATENT-CLASS-219-107 ..... c 37 N74-11300 *
US-PATENT-CLASS-219-109 ..... c 15 N72-23497 *
US-PATENT-CLASS-219-117 ..... c 15 N73-32358 *
US-PATENT-CLASS-219-118 ..... c 37 N76-27588 *
US-PATENT-CLASS-219-119 ..... c 37 N77-11387 *
US-PATENT-CLASS-219-119 ..... c 15 N73-14488 *
US-PATENT-CLASS-219-121.26 .. c 36 N90-20351 *
US-PATENT-CLASS-219-121.54 .. c 37 N86-30131 *
US-PATENT-CLASS-219-121.56 .. c 37 N86-30131 *
US-PATENT-CLASS-219-121.57 .. c 37 N86-30131 *
US-PATENT-CLASS-219-121LE ... c 26 N86-32561 *
US-PATENT-CLASS-219-121LN ... c 44 N82-26777 *
US-PATENT-CLASS-219-121LV ... c 26 N86-32561 *
US-PATENT-CLASS-219-121P .... c 15 N72-32487 *
US-PATENT-CLASS-219-121 ..... c 15 N89-21471 * #
US-PATENT-CLASS-219-121 ..... c 33 N70-34540 *
US-PATENT-CLASS-219-121 ..... c 15 N71-19486 *
US-PATENT-CLASS-219-121 ..... c 16 N71-20400 *
US-PATENT-CLASS-219-121 ..... c 15 N71-27135 *
US-PATENT-CLASS-219-124.02 .. c 37 N86-30131 *
US-PATENT-CLASS-219-124.2-2 . c 37 N79-10421 *
US-PATENT-CLASS-219-124.32 .. c 37 N79-10421 *
US-PATENT-CLASS-219-124.34 .. c 37 N86-21650 *

US-PATENT-CLASS-219-124.34 .. c 74 N87-17493 *
US-PATENT-CLASS-219-124.34 .. c 74 N87-25843 *
US-PATENT-CLASS-219-124.34 .. c 37 N88-14362 *
US-PATENT-CLASS-219-125.1 ... c 37 N79-10421 *
US-PATENT-CLASS-219-125 ..... c 15 N71-23815 *
US-PATENT-CLASS-219-125 ..... c 37 N75-27376 *
US-PATENT-CLASS-219-130.01 .. c 74 N87-17493 *
US-PATENT-CLASS-219-130.01 .. c 74 N87-25843 *
US-PATENT-CLASS-219-130.01 .. c 37 N88-14362 *
US-PATENT-CLASS-219-130.4 ... c 37 N88-30131 *
US-PATENT-CLASS-219-130 ..... c 15 N71-23798 *
US-PATENT-CLASS-219-131 ..... c 15 N71-15871 *
US-PATENT-CLASS-219-136 ..... c 37 N88-14362 *
US-PATENT-CLASS-219-136 ..... c 31 N90-23586 *
US-PATENT-CLASS-219-136 ..... c 31 N90-26166 *
US-PATENT-CLASS-219-137.42 .. c 37 N88-23980 *
US-PATENT-CLASS-219-137 ..... c 15 N70-34814 *
US-PATENT-CLASS-219-137 ..... c 37 N75-19883 *
US-PATENT-CLASS-219-158 ..... c 15 N72-22491 *
US-PATENT-CLASS-219-160 ..... c 37 N80-23655 *
US-PATENT-CLASS-219-161 ..... c 37 N80-23655 *
US-PATENT-CLASS-219-19 ..... c 33 N70-34812 *
US-PATENT-CLASS-219-201 ..... c 52 N80-16725 *
US-PATENT-CLASS-219-201 ..... c 37 N85-29296 *
US-PATENT-CLASS-219-203 ..... c 11 N73-12265 *
US-PATENT-CLASS-219-203 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-208 ..... c 35 N81-26431 *
US-PATENT-CLASS-219-210 ..... c 35 N81-26431 *
US-PATENT-CLASS-219-216 ..... c 35 N74-15831 *
US-PATENT-CLASS-219-219 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-221 ..... c 15 N72-11382 *
US-PATENT-CLASS-219-221 ..... c 37 N85-29296 *
US-PATENT-CLASS-219-229 ..... c 15 N71-27214 *
US-PATENT-CLASS-219-234 ..... c 15 N72-22401 *
US-PATENT-CLASS-219-234 ..... c 15 N72-23497 *
US-PATENT-CLASS-219-243 ..... c 15 N72-11382 *
US-PATENT-CLASS-219-273 ..... c 15 N72-32487 *
US-PATENT-CLASS-219-275 ..... c 15 N71-20396 *
US-PATENT-CLASS-219-275 ..... c 20 N87-16875 *
US-PATENT-CLASS-219-285 ..... c 37 N85-29296 *
US-PATENT-CLASS-219-299 ..... c 51 N79-10894 *
US-PATENT-CLASS-219-300 ..... c 37 N77-13418 *
US-PATENT-CLASS-219-302 ..... c 51 N79-10894 *
US-PATENT-CLASS-219-304 ..... c 37 N77-13418 *
US-PATENT-CLASS-219-343 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-347 ..... c 15 N69-27871 * #
US-PATENT-CLASS-219-347 ..... c 33 N70-34545 *
US-PATENT-CLASS-219-349 ..... c 15 N73-27405 *
US-PATENT-CLASS-219-34 ..... c 09 N70-33312 *
US-PATENT-CLASS-219-354 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-364 ..... c 33 N71-16278 *
US-PATENT-CLASS-219-378 ..... c 33 N71-25353 *
US-PATENT-CLASS-219-383 ..... c 09 N88-26639 *
US-PATENT-CLASS-219-388 ..... c 35 N74-15831 *
US-PATENT-CLASS-219-390 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-390 ..... c 35 N86-20750 *
US-PATENT-CLASS-219-396 ..... c 35 N86-20750 *
US-PATENT-CLASS-219-396 ..... c 35 N86-20750 *
US-PATENT-CLASS-219-410 ..... c 12 N79-29075 *
US-PATENT-CLASS-219-411 ..... c 17 N89-25147 * #
US-PATENT-CLASS-219-411 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-413 ..... c 14 N71-29858 *
US-PATENT-CLASS-219-477 ..... c 33 N74-14935 *
US-PATENT-CLASS-219-497 ..... c 77 N75-20140 *
US-PATENT-CLASS-219-499 ..... c 14 N73-26430 *
US-PATENT-CLASS-219-501 ..... c 77 N75-20140 *
US-PATENT-CLASS-219-505 ..... c 14 N71-27058 *
US-PATENT-CLASS-219-505 ..... c 77 N75-20140 *
US-PATENT-CLASS-219-50 ..... c 14 N73-26430 *
US-PATENT-CLASS-219-510 ..... c 35 N81-26431 *
US-PATENT-CLASS-219-522 ..... c 11 N73-12265 *
US-PATENT-CLASS-219-522 ..... c 52 N80-16725 *
US-PATENT-CLASS-219-522 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-530 ..... c 33 N71-25353 *
US-PATENT-CLASS-219-539 ..... c 33 N74-14935 *
US-PATENT-CLASS-219-541 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-543 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-545 ..... c 33 N82-26571 *
US-PATENT-CLASS-219-62 ..... c 15 N73-26515 *
US-PATENT-CLASS-219-72 ..... c 15 N71-14932 *
US-PATENT-CLASS-219-72 ..... c 37 N80-19802 *
US-PATENT-CLASS-219-74 ..... c 74 N87-25843 *
US-PATENT-CLASS-219-74 ..... c 37 N80-19802 *
US-PATENT-CLASS-219-75 ..... c 37 N88-23980 *
US-PATENT-CLASS-219-75 ..... c 31 N90-23586 *
US-PATENT-CLASS-219-75 ..... c 31 N90-26166 *
US-PATENT-CLASS-219-76.14 ... c 24 N85-30027 *
US-PATENT-CLASS-219-76 ..... c 37 N74-11300 *
US-PATENT-CLASS-219-85CA ... c 35 N80-20560 *
US-PATENT-CLASS-219-85CM ... c 35 N80-20560 *
US-PATENT-CLASS-219-85R ..... c 35 N80-20560 *
US-PATENT-CLASS-219-85 ..... c 15 N72-22491 *
US-PATENT-CLASS-219-85 ..... c 15 N72-23497 *
US-PATENT-CLASS-219-91 ..... c 15 N71-19813 *
US-PATENT-CLASS-219-91 ..... c 15 N73-32359 *
US-PATENT-CLASS-219-92 ..... c 37 N76-27568 *

US-PATENT-CLASS-219-92 ..... c 37 N77-11397 *
US-PATENT-CLASS-22-200 ..... c 15 N71-15966 *
US-PATENT-CLASS-22-200 ..... c 17 N70-38198 *
US-PATENT-CLASS-220-14 ..... c 15 N89-39035 * #
US-PATENT-CLASS-220-15 ..... c 31 N71-15664 *
US-PATENT-CLASS-220-15 ..... c 34 N75-12222 *
US-PATENT-CLASS-220-1 ..... c 31 N71-17680 *
US-PATENT-CLASS-220-2.2 ..... c 24 N79-25143 *
US-PATENT-CLASS-220-268 ..... c 37 N79-22474 *
US-PATENT-CLASS-220-308 ..... c 27 N84-27886 *
US-PATENT-CLASS-220-335 ..... c 46 N83-25217 *
US-PATENT-CLASS-220-378 ..... c 37 N82-24490 *
US-PATENT-CLASS-220-423 ..... c 37 N80-18393 *
US-PATENT-CLASS-220-429 ..... c 44 N80-20808 *
US-PATENT-CLASS-220-445 ..... c 37 N80-18393 *
US-PATENT-CLASS-220-46 ..... c 15 N71-27068 *
US-PATENT-CLASS-220-5A ..... c 31 N89-29578 *
US-PATENT-CLASS-220-5R ..... c 15 N72-22496 *
US-PATENT-CLASS-220-55 ..... c 15 N89-27502 * #
US-PATENT-CLASS-220-63 ..... c 11 N70-38182 *
US-PATENT-CLASS-220-67 ..... c 15 N71-10577 *
US-PATENT-CLASS-220-82R ..... c 31 N81-18343 *
US-PATENT-CLASS-220-86A ..... c 31 N81-18343 *
US-PATENT-CLASS-220-88 ..... c 11 N71-15980 *
US-PATENT-CLASS-220-89 ..... c 11 N71-17800 *
US-PATENT-CLASS-220-901 ..... c 37 N80-18393 *
US-PATENT-CLASS-220-901 ..... c 31 N89-29578 *
US-PATENT-CLASS-220-9 ..... c 23 N71-22981 *
US-PATENT-CLASS-220-9 ..... c 18 N71-23658 *
US-PATENT-CLASS-220-9 ..... c 15 N71-23816 *
US-PATENT-CLASS-220-9 ..... c 33 N71-25351 *
US-PATENT-CLASS-221-265 ..... c 51 N74-15778 *
US-PATENT-CLASS-222-131 ..... c 31 N79-21225 *
US-PATENT-CLASS-222-136 ..... c 15 N72-21465 *
US-PATENT-CLASS-222-137 ..... c 14 N71-27005 *
US-PATENT-CLASS-222-146 ..... c 37 N76-19436 *
US-PATENT-CLASS-222-187 ..... c 31 N90-23587 *
US-PATENT-CLASS-222-183 ..... c 37 N74-13178 *
US-PATENT-CLASS-222-309 ..... c 15 N72-21465 *
US-PATENT-CLASS-222-309 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-309 ..... c 35 N85-21586 *
US-PATENT-CLASS-222-324 ..... c 54 N74-17853 *
US-PATENT-CLASS-222-340 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-340 ..... c 35 N85-21586 *
US-PATENT-CLASS-222-387 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-389 ..... c 15 N70-38686 *
US-PATENT-CLASS-222-414 ..... c 14 N73-27378 *
US-PATENT-CLASS-222-43 ..... c 35 N85-21586 *
US-PATENT-CLASS-222-45 ..... c 14 N70-40233 *
US-PATENT-CLASS-222-48 ..... c 35 N85-21586 *
US-PATENT-CLASS-222-49 ..... c 14 N71-27005 *
US-PATENT-CLASS-222-514 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-61 ..... c 27 N71-29156 *
US-PATENT-CLASS-222-61 ..... c 37 N77-28497 *
US-PATENT-CLASS-222-71 ..... c 15 N72-21465 *
US-PATENT-CLASS-222-65 ..... c 37 N77-28497 *
US-PATENT-CLASS-224-25A ..... c 05 N72-23085 *
US-PATENT-CLASS-224-25 ..... c 05 N71-12351 *
US-PATENT-CLASS-224-444 ..... c 54 N74-17853 *
US-PATENT-CLASS-225-103 ..... c 37 N82-32730 *
US-PATENT-CLASS-225-1 ..... c 15 N71-17628 *
US-PATENT-CLASS-225-2 ..... c 28 N71-14354 *
US-PATENT-CLASS-226-190 ..... c 06 N71-19420 *
US-PATENT-CLASS-226-58 ..... c 14 N71-29036 *
US-PATENT-CLASS-227-27 ..... c 37 N88-25790 *
US-PATENT-CLASS-227-28 ..... c 37 N88-25790 *
US-PATENT-CLASS-228-103 ..... c 35 N83-35338 *
US-PATENT-CLASS-228-107 ..... c 37 N79-13364 *
US-PATENT-CLASS-228-107 ..... c 37 N88-14359 *
US-PATENT-CLASS-228-109 ..... c 37 N88-14359 *
US-PATENT-CLASS-228-116 ..... c 37 N81-19455 *
US-PATENT-CLASS-228-119 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-119 ..... c 24 N81-26179 *
US-PATENT-CLASS-228-119 ..... c 37 N88-32736 * #
US-PATENT-CLASS-228-124 ..... c 28 N77-29260 *
US-PATENT-CLASS-228-124 ..... c 37 N87-21334 *
US-PATENT-CLASS-228-13 ..... c 18 N79-11108 *
US-PATENT-CLASS-228-15.1 ..... c 18 N79-11108 *
US-PATENT-CLASS-228-157 ..... c 24 N82-24296 *
US-PATENT-CLASS-228-157 ..... c 24 N84-11214 *
US-PATENT-CLASS-228-166 ..... c 35 N84-22930 *
US-PATENT-CLASS-228-170 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-173 ..... c 18 N79-11108 *
US-PATENT-CLASS-228-174 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-181 ..... c 24 N84-11214 *
US-PATENT-CLASS-228-190 ..... c 24 N75-28135 *
US-PATENT-CLASS-228-190 ..... c 28 N77-26265 *
US-PATENT-CLASS-228-190 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-190 ..... c 24 N81-26179 *
US-PATENT-CLASS-228-193 ..... c 24 N75-28135 *
US-PATENT-CLASS-228-193 ..... c 37 N79-18455 *
US-PATENT-CLASS-228-193 ..... c 35 N83-35338 *
US-PATENT-CLASS-228-194 ..... c 28 N77-26265 *
US-PATENT-CLASS-228-1 ..... c 37 N75-25165 *
US-PATENT-CLASS-228-2.5 ..... c 37 N79-13364 *
US-PATENT-CLASS-228-2.5 ..... c 37 N88-14359 *

US-PATENT-CLASS-228-205 ..... c 37 N81-19488 *
US-PATENT-CLASS-228-206 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-206 ..... c 37 N87-21334 *
US-PATENT-CLASS-228-209 ..... c 37 N87-21334 *
US-PATENT-CLASS-228-212 ..... c 37 N80-23655 *
US-PATENT-CLASS-228-212 ..... c 24 N84-11214 *
US-PATENT-CLASS-228-214 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-222 ..... c 37 N80-23655 *
US-PATENT-CLASS-228-232 ..... c 28 N77-28265 *
US-PATENT-CLASS-228-238 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-263.19 .. c 35 N83-35338 *
US-PATENT-CLASS-228-263 ..... c 28 N77-29260 *
US-PATENT-CLASS-228-44.1R ... c 37 N80-23655 *
US-PATENT-CLASS-228-5.1 ..... c 44 N79-24431 *
US-PATENT-CLASS-228-50 ..... c 15 N70-39824 *
US-PATENT-CLASS-228-50 ..... c 15 N70-40204 *
US-PATENT-CLASS-228-53 ..... c 15 N71-27214 *
US-PATENT-CLASS-228-57 ..... c 15 N72-22491 *
US-PATENT-CLASS-228-6 ..... c 44 N79-24431 *
US-PATENT-CLASS-228-7 ..... c 15 N71-15607 *
US-PATENT-CLASS-228-8 ..... c 15 N71-23050 *
US-PATENT-CLASS-228-8 ..... c 37 N79-10421 *
US-PATENT-CLASS-228-9 ..... c 15 N71-20393 *
US-PATENT-CLASS-229-DIG.11 . c 32 N73-13821 *
US-PATENT-CLASS-23-109 ..... c 04 N72-33072 *
US-PATENT-CLASS-23-201 ..... c 06 N72-17095 *
US-PATENT-CLASS-23-208 ..... c 15 N89-21922 * #
US-PATENT-CLASS-23-208 ..... c 26 N70-39805 *
US-PATENT-CLASS-23-208.1 ..... c 15 N72-20446 *
US-PATENT-CLASS-23-230B ..... c 25 N75-14844 *
US-PATENT-CLASS-23-230B ..... c 23 N77-17161 *
US-PATENT-CLASS-23-230B ..... c 25 N79-14169 *
US-PATENT-CLASS-23-230B ..... c 51 N80-27067 *
US-PATENT-CLASS-23-230L ..... c 35 N74-32879 *
US-PATENT-CLASS-23-230M ..... c 25 N76-18245 *
US-PATENT-CLASS-23-230M ..... c 23 N77-17161 *
US-PATENT-CLASS-23-230PC .... c 25 N76-15210 *
US-PATENT-CLASS-23-230PC .... c 25 N82-12186 *
US-PATENT-CLASS-23-230R ..... c 06 N72-17094 *
US-PATENT-CLASS-23-230R ..... c 17 N73-12547 *
US-PATENT-CLASS-23-230R ..... c 17 N73-27446 *
US-PATENT-CLASS-23-230R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-230R ..... c 45 N76-31714 *
US-PATENT-CLASS-23-230R ..... c 23 N77-17161 *
US-PATENT-CLASS-23-230 ..... c 06 N71-23527 *
US-PATENT-CLASS-23-230 ..... c 06 N72-17095 *
US-PATENT-CLASS-23-231 ..... c 23 N77-17161 *
US-PATENT-CLASS-23-232C ..... c 06 N72-17094 *
US-PATENT-CLASS-23-232C ..... c 25 N76-18245 *
US-PATENT-CLASS-23-232C ..... c 23 N77-17161 *
US-PATENT-CLASS-23-232E ..... c 06 N73-16108 *
US-PATENT-CLASS-23-232E ..... c 45 N76-31714 *
US-PATENT-CLASS-23-232E ..... c 25 N79-15210 *
US-PATENT-CLASS-23-232E ..... c 25 N82-12186 *
US-PATENT-CLASS-23-232R ..... c 06 N73-16108 *
US-PATENT-CLASS-23-232R ..... c 45 N76-31714 *
US-PATENT-CLASS-23-232R ..... c 23 N77-17161 *
US-PATENT-CLASS-23-232R ..... c 25 N79-15210 *
US-PATENT-CLASS-23-252R ..... c 25 N74-12813 *
US-PATENT-CLASS-23-252R ..... c 25 N79-10162 *
US-PATENT-CLASS-23-252R ..... c 25 N79-28253 *
US-PATENT-CLASS-23-253A ..... c 51 N77-27677 *
US-PATENT-CLASS-23-253A ..... c 54 N78-14794 *
US-PATENT-CLASS-23-253PC .... c 06 N72-17094 *
US-PATENT-CLASS-23-253PC .... c 37 N74-18123 *
US-PATENT-CLASS-23-253R ..... c 15 N72-21465 *
US-PATENT-CLASS-23-253R ..... c 25 N75-14844 *
US-PATENT-CLASS-23-253R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-253 ..... c 23 N71-16355 *
US-PATENT-CLASS-23-253 ..... c 06 N71-26754 *
US-PATENT-CLASS-23-253 ..... c 06 N72-17095 *
US-PATENT-CLASS-23-254EF .... c 36 N76-19403 *
US-PATENT-CLASS-23-254E ..... c 06 N73-16139 *
US-PATENT-CLASS-23-254E ..... c 33 N75-29245 *
US-PATENT-CLASS-23-254E ..... c 35 N75-29380 *
US-PATENT-CLASS-23-254E ..... c 45 N76-21742 *
US-PATENT-CLASS-23-254R ..... c 06 N73-16108 *
US-PATENT-CLASS-23-254R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-254R ..... c 23 N77-17161 *
US-PATENT-CLASS-23-254 ..... c 14 N71-20442 *
US-PATENT-CLASS-23-256E ..... c 35 N75-29380 *
US-PATENT-CLASS-23-256R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-259 ..... c 15 N71-27372 *
US-PATENT-CLASS-23-259 ..... c 15 N72-21465 *
US-PATENT-CLASS-23-259 ..... c 37 N74-18123 *
US-PATENT-CLASS-23-259 ..... c 51 N77-27677 *
US-PATENT-CLASS-23-277C ..... c 25 N76-33378 *
US-PATENT-CLASS-23-277R ..... c 44 N77-22807 *
US-PATENT-CLASS-23-277 ..... c 26 N70-40015 *
US-PATENT-CLASS-23-281 ..... c 28 N72-19788 *
US-PATENT-CLASS-23-281 ..... c 25 N74-12813 *
US-PATENT-CLASS-23-281 ..... c 44 N76-18842 *
US-PATENT-CLASS-23-281 ..... c 44 N76-29700 *
US-PATENT-CLASS-23-281 ..... c 44 N77-10836 *
US-PATENT-CLASS-23-281 ..... c 44 N77-22807 *
US-PATENT-CLASS-23-284 ..... c 35 N74-15127 *

US-PATENT-CLASS-23-288F ..... c 25 N74-12813 *
US-PATENT-CLASS-23-288J ..... c 25 N74-12813 *
US-PATENT-CLASS-23-288R ..... c 29 N80-10374 *
US-PATENT-CLASS-23-288 ..... c 29 N72-18766 *
US-PATENT-CLASS-23-292 ..... c 51 N77-27677 *
US-PATENT-CLASS-23-293R ..... c 29 N81-15119 *
US-PATENT-CLASS-23-295R ..... c 76 N85-29800 *
US-PATENT-CLASS-23-300 ..... c 29 N80-23471 *
US-PATENT-CLASS-23-302A ..... c 29 N80-23471 *
US-PATENT-CLASS-23-302R ..... c 29 N80-23471 *
US-PATENT-CLASS-23-302T ..... c 29 N80-23471 *
US-PATENT-CLASS-23-313R ..... c 71 N85-22104 *
US-PATENT-CLASS-23-55 ..... c 06 N72-17093 *
US-PATENT-CLASS-23-88 ..... c 06 N72-17093 *
US-PATENT-CLASS-23-927 ..... c 51 N80-16714 *
US-PATENT-CLASS-23-97 ..... c 06 N72-17093 *
US-PATENT-CLASS-230-162 ..... c 33 N71-17610 *
US-PATENT-CLASS-230-221 ..... c 11 N72-22245 *
US-PATENT-CLASS-230-54 ..... c 11 N72-22245 *
US-PATENT-CLASS-233-DIG.1 ... c 34 N75-26282 *
US-PATENT-CLASS-233-11 ..... c 15 N71-16079 *
US-PATENT-CLASS-233-20R ... c 34 N75-26282 *
US-PATENT-CLASS-233-25 ..... c 34 N75-26282 *
US-PATENT-CLASS-233-46 ..... c 34 N75-26282 *
US-PATENT-CLASS-233-6 ..... c 34 N75-26282 *
US-PATENT-CLASS-235.150.27 .. c 04 N74-13420 *
US-PATENT-CLASS-235-10.2 ..... c 08 N73-25206 *
US-PATENT-CLASS-235-150.1 ... c 08 N71-29033 *
US-PATENT-CLASS-235-150.1 ... c 08 N72-31226 *
US-PATENT-CLASS-235-150.1 ... c 32 N77-10392 *
US-PATENT-CLASS-235-150.22 .. c 02 N71-13421 *
US-PATENT-CLASS-235-150.22 .. c 04 N74-13420 *
US-PATENT-CLASS-235-150.25 .. c 21 N71-21698 *
US-PATENT-CLASS-235-150.25 .. c 35 N77-20399 *
US-PATENT-CLASS-235-150.26 .. c 04 N74-13420 *
US-PATENT-CLASS-235-150.27 .. c 08 N71-29033 *
US-PATENT-CLASS-235-150.2 ... c 08 N71-29033 *
US-PATENT-CLASS-235-150.2 ... c 35 N77-20399 *
US-PATENT-CLASS-235-150.3 ... c 33 N74-10223 *
US-PATENT-CLASS-235-150.52 .. c 08 N72-22165 *
US-PATENT-CLASS-235-150.53 .. c 08 N72-22165 *
US-PATENT-CLASS-235-150.53 .. c 07 N73-13149 *
US-PATENT-CLASS-235-150.53 .. c 33 N75-26243 *
US-PATENT-CLASS-235-151.13 .. c 25 N76-18245 *
US-PATENT-CLASS-235-151.1 ... c 08 N71-29033 *
US-PATENT-CLASS-235-151.1 ... c 08 N72-31226 *
US-PATENT-CLASS-235-151.27 .. c 08 N73-25206 *
US-PATENT-CLASS-235-151.31 .. c 10 N73-25240 *
US-PATENT-CLASS-235-151.34 .. c 35 N76-14431 *
US-PATENT-CLASS-235-151.3 ... c 52 N74-22771 *
US-PATENT-CLASS-235-151.3 ... c 38 N78-17395 *
US-PATENT-CLASS-235-151.3 ... c 38 N78-17396 *
US-PATENT-CLASS-235-151 ..... c 37 N74-21058 *
US-PATENT-CLASS-235-152E .. c 08 N73-32091 *
US-PATENT-CLASS-235-152 ..... c 07 N71-24741 *
US-PATENT-CLASS-235-152 ..... c 08 N72-20176 *
US-PATENT-CLASS-235-152 ..... c 08 N72-22167 *
US-PATENT-CLASS-235-152 ..... c 08 N72-25210 *
US-PATENT-CLASS-235-152 ..... c 08 N73-12175 *
US-PATENT-CLASS-235-152 ..... c 09 N73-13209 *
US-PATENT-CLASS-235-152 ..... c 08 N73-26175 *
US-PATENT-CLASS-235-152 ..... c 60 N77-14751 *
US-PATENT-CLASS-235-153AE .. c 60 N76-21914 *
US-PATENT-CLASS-235-153AK .. c 62 N74-14930 *
US-PATENT-CLASS-235-153 ..... c 08 N71-24633 *
US-PATENT-CLASS-235-153 ..... c 08 N72-22166 *
US-PATENT-CLASS-235-154 ..... c 08 N70-34779 *
US-PATENT-CLASS-235-154 ..... c 10 N71-23662 *
US-PATENT-CLASS-235-154 ..... c 08 N72-18184 *
US-PATENT-CLASS-235-154 ..... c 08 N72-25206 *
US-PATENT-CLASS-235-155 ..... c 08 N71-24890 *
US-PATENT-CLASS-235-155 ..... c 08 N72-21197 *
US-PATENT-CLASS-235-155 ..... c 08 N73-12176 *
US-PATENT-CLASS-235-156 ..... c 08 N71-19803 *
US-PATENT-CLASS-235-156 ..... c 60 N75-13539 *
US-PATENT-CLASS-235-156 ..... c 32 N76-21366 *
US-PATENT-CLASS-235-156 ..... c 32 N77-10392 *
US-PATENT-CLASS-235-156 ..... c 38 N78-17395 *
US-PATENT-CLASS-235-156 ..... c 38 N78-17396 *
US-PATENT-CLASS-235-158 ..... c 08 N71-19437 *
US-PATENT-CLASS-235-164 ..... c 08 N71-23110 *
US-PATENT-CLASS-235-164 ..... c 08 N73-26175 *
US-PATENT-CLASS-235-164 ..... c 60 N74-20836 *
US-PATENT-CLASS-235-175 ..... c 08 N71-19803 *
US-PATENT-CLASS-235-175 ..... c 08 N71-23110 *
US-PATENT-CLASS-235-176 ..... c 08 N70-34787 *
US-PATENT-CLASS-235-181 ..... c 07 N71-21476 *
US-PATENT-CLASS-235-181 ..... c 07 N73-13149 *
US-PATENT-CLASS-235-181 ..... c 35 N75-21562 *
US-PATENT-CLASS-235-181 ..... c 33 N75-26243 *
US-PATENT-CLASS-235-181 ..... c 43 N77-10584 *
US-PATENT-CLASS-235-181 ..... c 38 N78-17395 *
US-PATENT-CLASS-235-183 ..... c 08 N72-22165 *
US-PATENT-CLASS-235-184 ..... c 74 N78-18913 *
US-PATENT-CLASS-235-186 ..... c 10 N73-26230 *
US-PATENT-CLASS-235-194 ..... c 09 N71-19480 *
US-PATENT-CLASS-235-194 ..... c 08 N72-22165 *
US-PATENT-CLASS-235-194 ..... c 10 N73-25230 *
US-PATENT-CLASS-235-197 ..... c 08 N72-22165 *
US-PATENT-CLASS-235-197 ..... c 09 N72-23173 *
US-PATENT-CLASS-235-197 ..... c 10 N73-20253 *
US-PATENT-CLASS-235-197 ..... c 10 N73-26230 *
US-PATENT-CLASS-235-197 ..... c 60 N75-13539 *
US-PATENT-CLASS-235-201 ..... c 10 N71-25899 *
US-PATENT-CLASS-235-61.6 ..... c 01 N71-13411 *
US-PATENT-CLASS-235-61.6 ..... c 15 N71-21179 *
US-PATENT-CLASS-235-61NV ..... c 08 N72-11172 *
US-PATENT-CLASS-235-61NV ..... c 35 N76-29552 *
US-PATENT-CLASS-235-70 ..... c 04 N78-17031 *
US-PATENT-CLASS-235-78M ..... c 35 N76-29552 *
US-PATENT-CLASS-235-86M ..... c 35 N76-29552 *
US-PATENT-CLASS-235-92CA ... c 33 N74-10223 *
US-PATENT-CLASS-235-92CA ... c 38 N77-17495 *
US-PATENT-CLASS-235-92CC ... c 08 N72-20176 *
US-PATENT-CLASS-235-92CT ... c 38 N77-17495 *
US-PATENT-CLASS-235-92CV ... c 08 N73-25206 *
US-PATENT-CLASS-235-92DE ... c 08 N72-20176 *
US-PATENT-CLASS-235-92DM ... c 08 N72-20176 *
US-PATENT-CLASS-235-92DM ... c 33 N74-10223 *
US-PATENT-CLASS-235-92DM ... c 33 N75-19519 *
US-PATENT-CLASS-235-92DN ... c 08 N73-25206 *
US-PATENT-CLASS-235-92DN ... c 38 N77-17495 *
US-PATENT-CLASS-235-92EA ... c 08 N73-25206 *
US-PATENT-CLASS-235-92EV ... c 08 N73-25206 *
US-PATENT-CLASS-235-92FQ ... c 08 N73-20217 *
US-PATENT-CLASS-235-92LG ... c 08 N72-20176 *
US-PATENT-CLASS-235-92LG ... c 33 N75-19519 *
US-PATENT-CLASS-235-92MT ... c 08 N72-31226 *
US-PATENT-CLASS-235-92MT ... c 32 N73-26910 *
US-PATENT-CLASS-235-92PC ... c 35 N82-11431 *
US-PATENT-CLASS-235-92PE ... c 37 N74-21058 *
US-PATENT-CLASS-235-92R ..... c 08 N72-20176 *
US-PATENT-CLASS-235-92R ..... c 08 N73-20217 *
US-PATENT-CLASS-235-92R ..... c 08 N73-25206 *
US-PATENT-CLASS-235-92R ..... c 33 N75-19519 *
US-PATENT-CLASS-235-92R ..... c 38 N77-17495 *
US-PATENT-CLASS-235-92SB ... c 37 N74-21058 *
US-PATENT-CLASS-235-92SH ... c 33 N76-14373 *
US-PATENT-CLASS-235-92T ..... c 03 N72-25020 *
US-PATENT-CLASS-235-92T ..... c 08 N73-20217 *
US-PATENT-CLASS-235-92T ..... c 33 N75-19519 *
US-PATENT-CLASS-235-92VA ... c 33 N75-19519 *
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US-PATENT-CLASS-235-92 ..... c 08 N71-24891 *
US-PATENT-CLASS-235-92 ..... c 10 N71-27137 *
US-PATENT-CLASS-235-92 ..... c 14 N71-27215 *
US-PATENT-CLASS-236-1F ..... c 35 N81-26431 *
US-PATENT-CLASS-236-13 ..... c 31 N80-32583 *
US-PATENT-CLASS-236-15-E ... c 25 N80-29002 *
US-PATENT-CLASS-236-1 ..... c 33 N71-16357 *
US-PATENT-CLASS-236-44C ... c 31 N80-32583 *
US-PATENT-CLASS-236-49 ..... c 31 N74-27902 *
US-PATENT-CLASS-236-47 ..... c 31 N80-32583 *
US-PATENT-CLASS-236-68 ..... c 15 N72-12409 *
US-PATENT-CLASS-237-1A ..... c 44 N76-14602 *
US-PATENT-CLASS-237-1A ..... c 44 N78-10554 *
US-PATENT-CLASS-237-1A ..... c 44 N78-15580 *
US-PATENT-CLASS-237-1A ..... c 44 N78-17480 *
US-PATENT-CLASS-237-1A ..... c 44 N78-31525 *
US-PATENT-CLASS-237-1A ..... c 44 N79-24433 *
US-PATENT-CLASS-237-60 ..... c 34 N76-17317 *
US-PATENT-CLASS-238-134 ..... c 85 N74-34672 *
US-PATENT-CLASS-239-1 ..... c 05 N71-29619 *
US-PATENT-CLASS-239-DIG.23 . c 37 N85-29283 *
US-PATENT-CLASS-239-102 ..... c 37 N80-10494 *
US-PATENT-CLASS-239-127.1 ... c 29 N71-23968 *
US-PATENT-CLASS-239-127.1 ... c 29 N73-32906 *
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US-PATENT-CLASS-239-127.1 ... c 34 N79-1 J299 *
US-PATENT-CLASS-239-127.1 ... c 34 N80-24573 *
US-PATENT-CLASS-239-127.1 ... c 44 N81-24519 *
US-PATENT-CLASS-239-127.3 ... c 20 N78-14191 *
US-PATENT-CLASS-239-127.3 ... c 07 N80-32392 *
US-PATENT-CLASS-239-132.5 ... c 20 N87-14420 *
US-PATENT-CLASS-239-14.1 ..... c 09 N89-25242 *
US-PATENT-CLASS-239-145 ..... c 31 N80-23587 *
US-PATENT-CLASS-239-171 ..... c 37 N77-13418 *
US-PATENT-CLASS-239-2.1 ..... c 09 N89-25242 *
US-PATENT-CLASS-239-265.11 .. c 18 N71-21068 *
US-PATENT-CLASS-239-265.11 .. c 07 N74-33218 *
US-PATENT-CLASS-239-265.11 .. c 07 N76-18117 *
US-PATENT-CLASS-239-265.11 .. c 37 N80-23751 *
US-PATENT-CLASS-239-265.15 .. c 37 N79-22474 *
US-PATENT-CLASS-239-265.17 .. c 07 N74-27490 *
US-PATENT-CLASS-239-265.17 .. c 07 N83-33884 *
US-PATENT-CLASS-239-265.17 .. c 71 N84-14873 *
US-PATENT-CLASS-239-265.17 .. c 20 N89-25279 *
US-PATENT-CLASS-239-265.19 .. c 28 N71-21493 *
US-PATENT-CLASS-239-265.19 .. c 28 N72-11708 *
US-PATENT-CLASS-239-265.25 .. c 07 N78-27121 *
US-PATENT-CLASS-239-265.25 .. c 09 N78-31129 *
US-PATENT-CLASS-239-265.33 .. c 07 N78-27121 *
US-PATENT-CLASS-239-265.33 .. c 07 N80-32392 *
US-PATENT-CLASS-239-265.39 .. c 07 N79-14097 *
US-PATENT-CLASS-239-265.43 .. c 28 N71-16224 *
US-PATENT-CLASS-239-265.43 .. c 28 N72-11708 *
US-PATENT-CLASS-239-288 ..... c 37 N79-22474 *
US-PATENT-CLASS-239-288 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-302 ..... c 37 N80-10494 *
US-PATENT-CLASS-239-322 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-327 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-375 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-402.5 ... c 07 N85-35195 *
US-PATENT-CLASS-239-403 ..... c 20 N87-14420 *
US-PATENT-CLASS-239-416 ..... c 15 N69-23185 * #
US-PATENT-CLASS-239-416 ..... c 15 N71-17654 *
US-PATENT-CLASS-239-418 ..... c 28 N72-23809 *
US-PATENT-CLASS-239-424 ..... c 15 N72-25455 *
US-PATENT-CLASS-239-425 ..... c 20 N87-14420 *
US-PATENT-CLASS-239-426 ..... c 34 N84-12406 *
US-PATENT-CLASS-239-426 ..... c 34 N87-21255 *
US-PATENT-CLASS-239-433 ..... c 28 N72-23809 *
US-PATENT-CLASS-239-433 ..... c 37 N87-24889 *
US-PATENT-CLASS-239-434 ..... c 34 N87-21255 *
US-PATENT-CLASS-239-499 ..... c 34 N82-13376 *
US-PATENT-CLASS-239-543 ..... c 28 N72-23809 *
US-PATENT-CLASS-239-543 ..... c 31 N80-20254 *
US-PATENT-CLASS-239-545 ..... c 34 N87-21255 *
US-PATENT-CLASS-239-562 ..... c 43 N81-26509 *
US-PATENT-CLASS-239-568 ..... c 37 N84-16561 *
US-PATENT-CLASS-239-589 ..... c 34 N82-13376 *
US-PATENT-CLASS-239-59C ..... c 37 N85-29283 *
US-PATENT-CLASS-239-591 ..... c 43 N81-26509 *
US-PATENT-CLASS-239-596 ..... c 37 N87-24889 *
US-PATENT-CLASS-239-600 ..... c 37 N87-24889 *
US-PATENT-CLASS-239-601 ..... c 34 N82-13376 *
US-PATENT-CLASS-239-690 ..... c 28 N82-16401 *
US-PATENT-CLASS-24-126 ..... c 15 N71-22984 *
US-PATENT-CLASS-24-134R ..... c 15 N73-25512 *
US-PATENT-CLASS-24-205.17 ... c 15 N71-25975 *
US-PATENT-CLASS-24-211N ..... c 15 N72-11395 *
US-PATENT-CLASS-24-211 ..... c 15 N71-17653 *
US-PATENT-CLASS-24-214 ..... c 31 N83-31895 *
US-PATENT-CLASS-24-263 ..... c 15 N71-21076 *
US-PATENT-CLASS-24-263 ..... c 15 N71-26162 *
US-PATENT-CLASS-24-304 ..... c 27 N85-20125 *
US-PATENT-CLASS-24-447 ..... c 27 N85-20125 *
US-PATENT-CLASS-24-450 ..... c 27 N85-20125 *
US-PATENT-CLASS-24-580 ..... c 52 N84-26099 *
US-PATENT-CLASS-24-635 ..... c 37 N80-17154 *
US-PATENT-CLASS-24-688 ..... c 54 N89-29953 *
US-PATENT-CLASS-24-693 ..... c 27 N85-20125 *
US-PATENT-CLASS-240-1.2 ..... c 11 N70-33329 *
US-PATENT-CLASS-240-11.2 ..... c 09 N71-26787 *
US-PATENT-CLASS-240-11.4 ..... c 09 N71-26787 *
US-PATENT-CLASS-240-41.35R ... c 74 N77-21941 *
US-PATENT-CLASS-240-41B ..... c 38 N75-27384 *
US-PATENT-CLASS-240-41R ..... c 74 N77-21941 *
US-PATENT-CLASS-240-46.13 ... c 74 N77-21941 *
US-PATENT-CLASS-240-47 ..... c 34 N74-23066 *
US-PATENT-CLASS-240-51.11 ... c 09 N71-26787 *
US-PATENT-CLASS-241-95 ..... c 37 N84-16561 *
US-PATENT-CLASS-242-107 ..... c 33 N86-20669 *
US-PATENT-CLASS-242-128 ..... c 15 N82-24272 *
US-PATENT-CLASS-242-187 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-192 ..... c 14 N71-23698 *
US-PATENT-CLASS-242-193 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-204 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-210 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-54-R .... c 33 N86-20669 *
US-PATENT-CLASS-242-54 ..... c 15 N72-18477 *
US-PATENT-CLASS-242-55.19 ... c 14 N70-41647 *
US-PATENT-CLASS-242-55.19 ... c 07 N71-10809 *
US-PATENT-CLASS-242-57 ..... c 37 N77-14479 *
US-PATENT-CLASS-244.12.2 .... c 05 N82-26277 *
US-PATENT-CLASS-244-ISS ..... c 03 N72-20031 *
US-PATENT-CLASS-244-1.5S .... c 03 N73-20040 *
US-PATENT-CLASS-244-1-R ..... c 06 N87-22678 *
US-PATENT-CLASS-244-1A ..... c 33 N77-10429 *
US-PATENT-CLASS-244-1R ..... c 34 N79-31523 *
US-PATENT-CLASS-244-1R ..... c 35 N80-22769 *
US-PATENT-CLASS-244-15A ..... c 21 N72-21624 *
US-PATENT-CLASS-244-15A ..... c 21 N72-25585 *
US-PATENT-CLASS-244-15A ..... c 03 N73-20039 *
US-PATENT-CLASS-244-15A ..... c 15 N73-25513 *
US-PATENT-CLASS-244-15A ..... c 21 N73-30640 *
US-PATENT-CLASS-244-15A ..... c 18 N74-15089 *
US-PATENT-CLASS-244-15A ..... c 35 N74-28097 *
US-PATENT-CLASS-244-15B ..... c 15 N73-12486 *
US-PATENT-CLASS-244-19C ..... c 31 N73-32750 *
US-PATENT-CLASS-244-19C ..... c 34 N75-12222 *
US-PATENT-CLASS-244-19D ..... c 31 N73-26876 *
US-PATENT-CLASS-244-19D ..... c 37 N74-27803 *
US-PATENT-CLASS-244-19D ..... c 15 N77-10112 *
US-PATENT-CLASS-244-1SS ..... c 11 N73-13257 *
US-PATENT-CLASS-244-1SS ..... c 03 N73-20039 *
US-PATENT-CLASS-244-1SS ..... c 14 N73-27378 *
US-PATENT-CLASS-244-1SS ..... c 31 N73-30829 *

US-PATENT-CLASS-244-155 ... c 31 N73-32750 *
US-PATENT-CLASS-244-155 ... c 33 N73-32818 *
US-PATENT-CLASS-244-155 ... c 18 N74-22136 *
US-PATENT-CLASS-244-155 ... c 18 N74-27397 *
US-PATENT-CLASS-244-155 ... c 73 N75-30878 *
US-PATENT-CLASS-244-100 ... c 15 N70-34850 *
US-PATENT-CLASS-244-100 ... c 31 N70-39854 *
US-PATENT-CLASS-244-100 ... c 31 N70-39845 *
US-PATENT-CLASS-244-100 ... c 02 N70-41589 *
US-PATENT-CLASS-244-103R ... c 37 N81-24443 *
US-PATENT-CLASS-244-103 ... c 02 N70-36825 *
US-PATENT-CLASS-244-110B ... c 07 N82-26293 *
US-PATENT-CLASS-244-110C ... c 37 N82-18801 *
US-PATENT-CLASS-244-113 ... c 02 N70-37939 *
US-PATENT-CLASS-244-113 ... c 31 N71-25434 *
US-PATENT-CLASS-244-113 ... c 02 N77-10001 *
US-PATENT-CLASS-244-113 ... c 37 N82-16406 *
US-PATENT-CLASS-244-113 ... c 08 N85-35200 *
US-PATENT-CLASS-244-114R ... c 04 N82-16058 *
US-PATENT-CLASS-244-114 ... c 21 N72-22819 *
US-PATENT-CLASS-244-115 ... c 18 N83-29003 *
US-PATENT-CLASS-244-117-A ... c 24 N88-18629 *
US-PATENT-CLASS-244-117A ... c 33 N73-25952 *
US-PATENT-CLASS-244-117A ... c 34 N76-17317 *
US-PATENT-CLASS-244-117A ... c 37 N76-19437 *
US-PATENT-CLASS-244-117A ... c 34 N77-18382 *
US-PATENT-CLASS-244-117A ... c 05 N81-26114 *
US-PATENT-CLASS-244-117A ... c 27 N84-27896 *
US-PATENT-CLASS-244-117 ... c 31 N70-33242 *
US-PATENT-CLASS-244-117 ... c 33 N72-17947 *
US-PATENT-CLASS-244-118.1 ... c 06 N82-32373 *
US-PATENT-CLASS-244-118.1 ... c 18 N85-29991 *
US-PATENT-CLASS-244-118.1 ... c 37 N85-34401 *
US-PATENT-CLASS-244-118.1 ... c 05 N87-14314 *
US-PATENT-CLASS-244-119 ... c 02 N81-14986 *
US-PATENT-CLASS-244-119 ... c 24 N82-24296 *
US-PATENT-CLASS-244-119 ... c 24 N82-26384 *
US-PATENT-CLASS-244-119 ... c 24 N84-11214 *
US-PATENT-CLASS-244-119 ... c 05 N88-23785 *
US-PATENT-CLASS-244-12.3 ... c 05 N88-25914 *
US-PATENT-CLASS-244-12.4 ... c 05 N88-25914 *
US-PATENT-CLASS-244-12.5 ... c 06 N81-19130 *
US-PATENT-CLASS-244-120 ... c 05 N88-23785 *
US-PATENT-CLASS-244-121 ... c 27 N79-12221 *
US-PATENT-CLASS-244-121 ... c 24 N79-25142 *
US-PATENT-CLASS-244-121 ... c 15 N79-26100 *
US-PATENT-CLASS-244-121 ... c 27 N82-24339 *
US-PATENT-CLASS-244-121 ... c 27 N82-29456 *
US-PATENT-CLASS-244-121 ... c 37 N87-17036 *
US-PATENT-CLASS-244-122 ... c 06 N71-20718 *
US-PATENT-CLASS-244-123 ... c 24 N77-28225 *
US-PATENT-CLASS-244-123 ... c 24 N82-24296 *
US-PATENT-CLASS-244-123 ... c 24 N82-26384 *
US-PATENT-CLASS-244-123 ... c 24 N84-11214 *
US-PATENT-CLASS-244-127 ... c 34 N74-23039 *
US-PATENT-CLASS-244-129.5 ... c 18 N80-19278 *
US-PATENT-CLASS-244-12 ... c 02 N70-33330 *
US-PATENT-CLASS-244-130 ... c 02 N77-10001 *
US-PATENT-CLASS-244-130 ... c 02 N81-14968 *
US-PATENT-CLASS-244-130 ... c 37 N81-24443 *
US-PATENT-CLASS-244-130 ... c 02 N87-16790 *
US-PATENT-CLASS-244-130 ... c 07 N87-16829 *
US-PATENT-CLASS-244-130 ... c 02 N88-14071 *
US-PATENT-CLASS-244-130 ... c 05 N88-23785 *
US-PATENT-CLASS-244-130 ... c 05 N80-20079 *
US-PATENT-CLASS-244-130 ... c 05 N80-20079 *
US-PATENT-CLASS-244-132 ... c 24 N82-26384 *
US-PATENT-CLASS-244-132 ... c 24 N82-32417 *
US-PATENT-CLASS-244-133 ... c 31 N80-19427 *
US-PATENT-CLASS-244-134-D ... c 33 N86-20671 *
US-PATENT-CLASS-244-134-D ... c 33 N87-29833 *
US-PATENT-CLASS-244-134-F ... c 35 N88-29149 *
US-PATENT-CLASS-244-135R ... c 34 N76-17317 *
US-PATENT-CLASS-244-135R ... c 30 N80-19278 *
US-PATENT-CLASS-244-135 ... c 31 N70-43015 *
US-PATENT-CLASS-244-135 ... c 15 N73-12498 *
US-PATENT-CLASS-244-135 ... c 14 N73-27378 *
US-PATENT-CLASS-244-137-A ... c 05 N80-20079 *
US-PATENT-CLASS-244-137-A ... c 05 N87-14314 *
US-PATENT-CLASS-244-137P ... c 31 N73-26976 *
US-PATENT-CLASS-244-137P ... c 37 N75-22540 *
US-PATENT-CLASS-244-137P ... c 01 N83-30992 *
US-PATENT-CLASS-244-137R ... c 06 N82-32373 *
US-PATENT-CLASS-244-138A ... c 35 N80-22789 *
US-PATENT-CLASS-244-138 ... c 01 N80-39981 * #
US-PATENT-CLASS-244-138 ... c 02 N70-41630 *
US-PATENT-CLASS-244-138 ... c 31 N71-16085 *
US-PATENT-CLASS-244-138 ... c 31 N71-25434 *
US-PATENT-CLASS-244-138 ... c 31 N71-26851 *
US-PATENT-CLASS-244-139 ... c 31 N73-13998 *
US-PATENT-CLASS-244-139 ... c 02 N76-16014 *
US-PATENT-CLASS-244-139 ... c 05 N85-21147 *
US-PATENT-CLASS-244-139 ... c 08 N85-35200 *
US-PATENT-CLASS-244-13 ... c 01 N71-23497 *
US-PATENT-CLASS-244-13 ... c 02 N73-26806 *
US-PATENT-CLASS-244-13 ... c 05 N75-25014 *
US-PATENT-CLASS-244-13 ... c 06 N84-12154 *
US-PATENT-CLASS-244-140 ... c 02 N70-39009 *
US-PATENT-CLASS-244-145 ... c 02 N74-10034 *
US-PATENT-CLASS-244-147 ... c 05 N85-21147 *
US-PATENT-CLASS-244-14 ... c 14 N70-33322 *
US-PATENT-CLASS-244-15.5 ... c 31 N72-18659 *
US-PATENT-CLASS-244-150 ... c 15 N71-24800 *
US-PATENT-CLASS-244-151R ... c 33 N74-22865 *
US-PATENT-CLASS-244-152 ... c 02 N70-36904 *
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US-PATENT-CLASS-244-155 ... c 31 N73-14854 *
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US-PATENT-CLASS-244-158-A ... c 37 N85-30336 *
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US-PATENT-CLASS-244-158-A ... c 24 N88-18628 *
US-PATENT-CLASS-244-158-R ... c 05 N86-19310 *
US-PATENT-CLASS-244-158-R ... c 18 N86-20469 *
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US-PATENT-CLASS-244-158A ... c 27 N82-29456 *
US-PATENT-CLASS-244-158A ... c 24 N82-32417 *
US-PATENT-CLASS-244-158A ... c 24 N83-13172 *
US-PATENT-CLASS-244-158A ... c 18 N84-22801 *
US-PATENT-CLASS-244-158A ... c 27 N84-27896 *
US-PATENT-CLASS-244-158A ... c 24 N80-23480 *
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US-PATENT-CLASS-244-158R ... c 18 N80-22584 *
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US-PATENT-CLASS-244-159 ... c 27 N79-12221 *
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US-PATENT-CLASS-244-159 ... c 31 N83-31995 *
US-PATENT-CLASS-244-15P ... c 18 N86-24729 *
US-PATENT-CLASS-244-119 ... c 37 N86-25788 *
US-PATENT-CLASS-244-119 ... c 18 N88-26368 *
US-PATENT-CLASS-244-159 ... c 18 N89-25256 *
US-PATENT-CLASS-244-159 ... c 18 N80-26553 *
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US-PATENT-CLASS-244-159 ... c 18 N80-20126 *
US-PATENT-CLASS-244-15 ... c 05 N75-25914 *
US-PATENT-CLASS-244-15 ... c 05 N88-23785 *
US-PATENT-CLASS-244-160 ... c 27 N79-12221 *
US-PATENT-CLASS-244-160 ... c 43 N81-17499 *
US-PATENT-CLASS-244-160 ... c 14 N81-26161 *
US-PATENT-CLASS-244-160 ... c 27 N82-24339 *
US-PATENT-CLASS-244-160 ... c 27 N82-29456 *
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US-PATENT-CLASS-244-161 ... c 37 N76-22540 *
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US-PATENT-CLASS-244-161 ... c 37 N81-27519 *
US-PATENT-CLASS-244-161 ... c 18 N83-29303 *
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US-PATENT-CLASS-244-162 ... c 18 N76-17183 *
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US-PATENT-CLASS-244-165 ... c 35 N80-21719 *
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US-PATENT-CLASS-244-169 ... c 15 N73-10113 *
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US-PATENT-CLASS-244-17.19 ... c 06 N88-23809 *
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US-PATENT-CLASS-244-17.27 ... c 05 N87-14314 *
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US-PATENT-CLASS-244-172 ... c 18 N90-22584 *
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US-PATENT-CLASS-244-173 ... c 37 N81-15364 *
US-PATENT-CLASS-244-173 ... c 07 N83-20944 *
US-PATENT-CLASS-244-173 ... c 37 N86-25799 *
US-PATENT-CLASS-244-175 ... c 04 N82-23231 *
US-PATENT-CLASS-244-181 ... c 08 N81-24108 *
US-PATENT-CLASS-244-181 ... c 06 N81-26152 *
US-PATENT-CLASS-244-181 ... c 06 N86-27280 *
US-PATENT-CLASS-244-182 ... c 06 N81-26152 *
US-PATENT-CLASS-244-190 ... c 04 N82-23231 *
US-PATENT-CLASS-244-194 ... c 60 N82-29013 *
US-PATENT-CLASS-244-195 ... c 06 N79-23097 *
US-PATENT-CLASS-244-195 ... c 06 N81-24108 *
US-PATENT-CLASS-244-199 ... c 07 N85-35194 *
US-PATENT-CLASS-244-199 ... c 02 N86-14071 *
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US-PATENT-CLASS-244-204 ... c 02 N87-16790 *
US-PATENT-CLASS-244-207 ... c 05 N8_-25914 *
US-PATENT-CLASS-244-212 ... c 05 N84-22551 *
US-PATENT-CLASS-244-213 ... c 06 N82-24208 *
US-PATENT-CLASS-244-214 ... c 06 N85-19895 *
US-PATENT-CLASS-244-215 ... c 05 N84-22551 *
US-PATENT-CLASS-244-216 ... c 05 N84-22551 *
US-PATENT-CLASS-244-217 ... c 37 N82-16408 *
US-PATENT-CLASS-244-218 ... c 05 N73-32088 *
US-PATENT-CLASS-244-219 ... c 06 N79-14109 *
US-PATENT-CLASS-244-219 ... c 05 N84-22551 *

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US-PATENT-CLASS-244-23A ..... c 21 N72-25586 *
US-PATENT-CLASS-244-23C ..... c 05 N82-26277 *
US-PATENT-CLASS-244-23D ..... c 34 N78-16364 *
US-PATENT-CLASS-244-234 ..... c 06 N86-27288 *
US-PATENT-CLASS-244-23 ..... c 02 N71-11039 *
US-PATENT-CLASS-244-2 ..... c 14 N81-26161 *
US-PATENT-CLASS-244-2 ..... c 18 N84-27787 *
US-PATENT-CLASS-244-3.14 ..... c 21 N71-17691 *
US-PATENT-CLASS-244-3.16 ..... c 19 N74-15089 *
US-PATENT-CLASS-244-3.21 ..... c 30 N72-17873 *
US-PATENT-CLASS-244-3.21 ..... c 15 N78-14158 *
US-PATENT-CLASS-244-3.21 ..... c 15 N77-10113 *
US-PATENT-CLASS-244-3.21 ..... c 35 N77-20099 *
US-PATENT-CLASS-244-3.22 ..... c 31 N71-17629 *
US-PATENT-CLASS-244-3.22 ..... c 29 N72-22799 *
US-PATENT-CLASS-244-3.22 ..... c 20 N78-21275 *
US-PATENT-CLASS-244-31 ..... c 02 N71-11037 *
US-PATENT-CLASS-244-31 ..... c 31 N71-18081 *
US-PATENT-CLASS-244-31 ..... c 34 N74-23039 *
US-PATENT-CLASS-244-327 ..... c 08 N74-30421 *
US-PATENT-CLASS-244-32 ..... c 02 N73-13008 *
US-PATENT-CLASS-244-34A ..... c 06 N82-26277 *
US-PATENT-CLASS-244-35-R ..... c 02 N89-14224 *
US-PATENT-CLASS-244-35A ..... c 02 N84-11136 *
US-PATENT-CLASS-244-35R ..... c 02 N78-22154 *
US-PATENT-CLASS-244-36R ..... c 02 N84-11136 *
US-PATENT-CLASS-244-36R ..... c 02 N84-26732 *
US-PATENT-CLASS-244-36R ..... c 02 N87-16793 *
US-PATENT-CLASS-244-36 ..... c 01 N71-13410 *
US-PATENT-CLASS-244-40R ..... c 02 N78-22154 *
US-PATENT-CLASS-244-42CG ..... c 33 N77-10429 *
US-PATENT-CLASS-244-42DA ..... c 06 N75-25914 *
US-PATENT-CLASS-244-42 ..... c 02 N70-42016 *
US-PATENT-CLASS-244-42 ..... c 02 N71-26110 *
US-PATENT-CLASS-244-43 ..... c 02 N70-33255 *
US-PATENT-CLASS-244-43 ..... c 02 N71-11043 *
US-PATENT-CLASS-244-44 ..... c 02 N71-11039 *
US-PATENT-CLASS-244-45-A ..... c 06 N86-28914 *
US-PATENT-CLASS-244-45A ..... c 06 N78-32086 *
US-PATENT-CLASS-244-45A ..... c 06 N80-23380 *
US-PATENT-CLASS-244-45R ..... c 06 N84-12154 *
US-PATENT-CLASS-244-45 ..... c 02 N71-12243 *
US-PATENT-CLASS-244-46 ..... c 02 N70-33256 *
US-PATENT-CLASS-244-46 ..... c 02 N70-33256 *
US-PATENT-CLASS-244-46 ..... c 02 N70-34178 *
US-PATENT-CLASS-244-46 ..... c 02 N70-34858 *
US-PATENT-CLASS-244-46 ..... c 31 N70-38010 *
US-PATENT-CLASS-244-46 ..... c 02 N70-38011 *
US-PATENT-CLASS-244-46 ..... c 02 N71-11041 * #
US-PATENT-CLASS-244-46 ..... c 02 N73-26005 *
US-PATENT-CLASS-244-46 ..... c 06 N78-28217 *
US-PATENT-CLASS-244-46 ..... c 06 N78-32086 *
US-PATENT-CLASS-244-46 ..... c 06 N79-14108 *
US-PATENT-CLASS-244-46 ..... c 06 N80-23380 *
US-PATENT-CLASS-244-46 ..... c 06 N79-12061 *
US-PATENT-CLASS-244-46 ..... c 06 N82-28279 *
US-PATENT-CLASS-244-49 ..... c 43 N81-17499 *
US-PATENT-CLASS-244-4 ..... c 06 N89-21380 * #
US-PATENT-CLASS-244-4 ..... c 06 N71-12338 *
US-PATENT-CLASS-244-4 ..... c 28 N71-27585 *
US-PATENT-CLASS-244-50 ..... c 02 N70-34180 *
US-PATENT-CLASS-244-51 ..... c 02 N70-34858 *
US-PATENT-CLASS-244-52 ..... c 06 N81-19130 *
US-PATENT-CLASS-244-53A ..... c 07 N79-18066 *
US-PATENT-CLASS-244-53B ..... c 02 N74-20648 *
US-PATENT-CLASS-244-53B ..... c 07 N75-24736 *
US-PATENT-CLASS-244-53B ..... c 07 N77-18104 *
US-PATENT-CLASS-244-53B ..... c 06 N79-24078 *
US-PATENT-CLASS-244-53B ..... c 06 N82-33258 *
US-PATENT-CLASS-244-53R ..... c 06 N84-12154 *
US-PATENT-CLASS-244-53 ..... c 28 N71-15583 *
US-PATENT-CLASS-244-54 ..... c 07 N78-18066 *
US-PATENT-CLASS-244-54 ..... c 07 N79-14096 *
US-PATENT-CLASS-244-54 ..... c 06 N80-20078 *
US-PATENT-CLASS-244-55 ..... c 02 N73-26005 *
US-PATENT-CLASS-244-55 ..... c 06 N75-25914 *
US-PATENT-CLASS-244-55 ..... c 06 N84-12154 *
US-PATENT-CLASS-244-56 ..... c 07 N85-35194 *
US-PATENT-CLASS-244-56 ..... c 07 N87-16629 *
US-PATENT-CLASS-244-56 ..... c 06 N86-28914 *
US-PATENT-CLASS-244-56 ..... c 06 N80-20078 *
US-PATENT-CLASS-244-57 ..... c 15 N71-26611 *
US-PATENT-CLASS-244-63 ..... c 08 N77-18076 *
US-PATENT-CLASS-244-63 ..... c 14 N81-26161 *
US-PATENT-CLASS-244-63 ..... c 18 N84-27784 *
US-PATENT-CLASS-244-63 ..... c 18 N84-27787 *
US-PATENT-CLASS-244-75-R ..... c 06 N85-35500 *
US-PATENT-CLASS-244-75-R ..... c 06 N89-11736 *
US-PATENT-CLASS-244-75A ..... c 02 N73-26004 *
US-PATENT-CLASS-244-75R ..... c 06 N75-12930 *
US-PATENT-CLASS-244-75R ..... c 06 N85-21147 *
US-PATENT-CLASS-244-75R ..... c 06 N80-23380 *
US-PATENT-CLASS-244-76-R ..... c 06 N87-20969 *
US-PATENT-CLASS-244-76C ..... c 02 N73-26004 *
US-PATENT-CLASS-244-76 ..... c 21 N70-34039 *

US-PATENT-CLASS-244-76 ..... c 02 N71-13422 *
US-PATENT-CLASS-244-76 ..... c 02 N71-20570 *
US-PATENT-CLASS-244-77A ..... c 04 N74-13420 *
US-PATENT-CLASS-244-77B ..... c 04 N74-13420 *
US-PATENT-CLASS-244-77D ..... c 02 N73-19004 *
US-PATENT-CLASS-244-77F ..... c 02 N73-26004 *
US-PATENT-CLASS-244-77G ..... c 02 N73-26004 *
US-PATENT-CLASS-244-77 ..... c 32 N71-23971 *
US-PATENT-CLASS-244-79 ..... c 08 N82-24205 *
US-PATENT-CLASS-244-79 ..... c 06 N80-11738 *
US-PATENT-CLASS-244-79 ..... c 04 N76-26175 *
US-PATENT-CLASS-244-82 ..... c 06 N79-12061 *
US-PATENT-CLASS-244-83G ..... c 08 N79-23087 *
US-PATENT-CLASS-244-83R ..... c 06 N75-12930 *
US-PATENT-CLASS-244-83 ..... c 21 N70-33279 *
US-PATENT-CLASS-244-83 ..... c 15 N71-23255 *
US-PATENT-CLASS-244-83 ..... c 31 N71-33180 *
US-PATENT-CLASS-244-83 ..... c 08 N74-10842 *
US-PATENT-CLASS-244-87 ..... c 08 N81-19130 *
US-PATENT-CLASS-244-90R ..... c 08 N74-30421 *
US-PATENT-CLASS-244-90R ..... c 06 N79-12061 *
US-PATENT-CLASS-244-90R ..... c 06 N79-14108 *
US-PATENT-CLASS-244-90R ..... c 08 N85-19865 *
US-PATENT-CLASS-244-90R ..... c 06 N80-23380 *
US-PATENT-CLASS-244-90 ..... c 02 N71-27068 *
US-PATENT-CLASS-244-91 ..... c 08 N74-30421 *
US-PATENT-CLASS-244-91 ..... c 06 N84-12154 *
US-PATENT-CLASS-244-91 ..... c 06 N88-23806 *
US-PATENT-CLASS-244-93 ..... c 06 N82-26277 *
US-PATENT-CLASS-244/181 ..... c 37 N87-22965 *
US-PATENT-CLASS-247-171 ..... c 36 N75-23910 *
US-PATENT-CLASS-248-DIG-1 ..... c 18 N86-28554 *
US-PATENT-CLASS-248-119 ..... c 11 N70-35383 *
US-PATENT-CLASS-248-14 ..... c 15 N72-17454 *
US-PATENT-CLASS-248-16 ..... c 18 N74-27307 *
US-PATENT-CLASS-248-179 ..... c 15 N70-41310 *
US-PATENT-CLASS-248-179 ..... c 37 N78-27425 *
US-PATENT-CLASS-248-183 ..... c 14 N71-26827 *
US-PATENT-CLASS-248-183 ..... c 15 N72-11398 *
US-PATENT-CLASS-248-186 ..... c 37 N78-27425 *
US-PATENT-CLASS-248-188.4 ..... c 15 N72-27484 *
US-PATENT-CLASS-248-188.9 ..... c 31 N70-34159 *
US-PATENT-CLASS-248-19 ..... c 14 N89-27486 * #
US-PATENT-CLASS-248-19 ..... c 15 N72-11381 *
US-PATENT-CLASS-248-20 ..... c 15 N72-11381 *
US-PATENT-CLASS-248-228 ..... c 37 N84-16560 *
US-PATENT-CLASS-248-22 ..... c 19 N78-22264 *
US-PATENT-CLASS-248-23 ..... c 18 N74-27307 *
US-PATENT-CLASS-248-279 ..... c 15 N72-11398 *
US-PATENT-CLASS-248-27 ..... c 15 N71-20813 *
US-PATENT-CLASS-248-316.4 ..... c 37 N87-21333 *
US-PATENT-CLASS-248-317 ..... c 11 N89-27486 * #
US-PATENT-CLASS-248-348 ..... c 14 N70-39898 *
US-PATENT-CLASS-248-358R ..... c 37 N75-18573 *
US-PATENT-CLASS-248-358R ..... c 19 N78-22264 *
US-PATENT-CLASS-248-358 ..... c 15 N70-40156 *
US-PATENT-CLASS-248-358 ..... c 23 N71-15673 *
US-PATENT-CLASS-248-358 ..... c 15 N71-24694 *
US-PATENT-CLASS-248-36-3 ..... c 37 N78-17383 *
US-PATENT-CLASS-248-360 ..... c 15 N71-17649 *
US-PATENT-CLASS-248-361 ..... c 06 N71-29819 *
US-PATENT-CLASS-248-362 ..... c 37 N78-21554 *
US-PATENT-CLASS-248-363 ..... c 37 N78-21554 *
US-PATENT-CLASS-248-425 ..... c 37 N82-21567 *
US-PATENT-CLASS-248-487 ..... c 15 N72-11396 *
US-PATENT-CLASS-248-503 ..... c 19 N85-29891 *
US-PATENT-CLASS-248-548 ..... c 37 N88-23662 *
US-PATENT-CLASS-248-550 ..... c 37 N85-34401 *
US-PATENT-CLASS-248-550 ..... c 37 N87-21333 *
US-PATENT-CLASS-248-553 ..... c 19 N85-29891 *
US-PATENT-CLASS-248-608 ..... c 37 N88-23662 *
US-PATENT-CLASS-248-638 ..... c 36 N83-32028 *
US-PATENT-CLASS-248-638 ..... c 36 N83-32028 *
US-PATENT-CLASS-248-638 ..... c 06 N87-14314 *
US-PATENT-CLASS-249 ..... c 25 N79-26253 *
US-PATENT-CLASS-249-127 ..... c 31 N80-21216 *
US-PATENT-CLASS-249-144 ..... c 31 N75-13111 *
US-PATENT-CLASS-249-145 ..... c 31 N74-32920 *
US-PATENT-CLASS-249-145 ..... c 31 N75-13111 *
US-PATENT-CLASS-249-184 ..... c 31 N74-32920 *
US-PATENT-CLASS-249-59 ..... c 31 N75-13111 *
US-PATENT-CLASS-249-83 ..... c 31 N74-32920 *
US-PATENT-CLASS-249-86 ..... c 31 N74-32920 *
US-PATENT-CLASS-25-158 ..... c 15 N71-19076 *
US-PATENT-CLASS-250-105 ..... c 14 N70-40240 *
US-PATENT-CLASS-250-105 ..... c 14 N73-30389 *
US-PATENT-CLASS-250-199 ..... c 19 N89-27491 * #
US-PATENT-CLASS-250-199 ..... c 07 N71-12389 *
US-PATENT-CLASS-250-199 ..... c 19 N71-22895 *
US-PATENT-CLASS-250-199 ..... c 19 N71-25914 *
US-PATENT-CLASS-250-199 ..... c 19 N71-27183 *
US-PATENT-CLASS-250-199 ..... c 19 N73-19539 *
US-PATENT-CLASS-250-199 ..... c 07 N73-28119 *
US-PATENT-CLASS-250-199 ..... c 74 N76-19913 *
US-PATENT-CLASS-250-199 ..... c 74 N76-30093 *
US-PATENT-CLASS-250-199 ..... c 74 N77-26842 *

US-PATENT-CLASS-250-199 ..... c 32 N77-28048 *
US-PATENT-CLASS-250-199 ..... c 60 N77-32731 *
US-PATENT-CLASS-250-199 ..... c 74 N78-14889 *
US-PATENT-CLASS-250-201 ..... c 14 N70-40239 *
US-PATENT-CLASS-250-201 ..... c 35 N75-15014 *
US-PATENT-CLASS-250-201 ..... c 74 N78-17886 *
US-PATENT-CLASS-250-203R ..... c 14 N72-27409 *
US-PATENT-CLASS-250-203R ..... c 14 N73-25462 *
US-PATENT-CLASS-250-203R ..... c 14 N73-28490 *
US-PATENT-CLASS-250-203R ..... c 21 N73-30640 *
US-PATENT-CLASS-250-203R ..... c 19 N74-15089 *
US-PATENT-CLASS-250-203R ..... c 69 N74-30886 *
US-PATENT-CLASS-250-203R ..... c 35 N77-20401 *
US-PATENT-CLASS-250-203R ..... c 74 N77-22951 *
US-PATENT-CLASS-250-203R ..... c 44 N81-24520 *
US-PATENT-CLASS-250-203R ..... c 32 N83-18875 *
US-PATENT-CLASS-250-203R ..... c 47 N83-32232 *
US-PATENT-CLASS-250-203R ..... c 44 N86-14492 *
US-PATENT-CLASS-250-203X ..... c 18 N72-13437 *
US-PATENT-CLASS-250-203 ..... c 14 N89-27432 * #
US-PATENT-CLASS-250-203 ..... c 14 N89-27485 * #
US-PATENT-CLASS-250-203 ..... c 07 N89-28736 * #
US-PATENT-CLASS-250-203 ..... c 14 N70-34158 *
US-PATENT-CLASS-250-203 ..... c 21 N70-35089 *
US-PATENT-CLASS-250-203 ..... c 14 N70-40239 *
US-PATENT-CLASS-250-203 ..... c 21 N71-10678 *
US-PATENT-CLASS-250-203 ..... c 21 N71-10771 *
US-PATENT-CLASS-250-203 ..... c 21 N71-15842 *
US-PATENT-CLASS-250-203 ..... c 14 N71-18968 *
US-PATENT-CLASS-250-203 ..... c 14 N71-23269 *
US-PATENT-CLASS-250-203 ..... c 14 N71-23797 *
US-PATENT-CLASS-250-203 ..... c 14 N72-22444 *
US-PATENT-CLASS-250-203 ..... c 14 N73-30383 *
US-PATENT-CLASS-250-203 ..... c 36 N75-23910 *
US-PATENT-CLASS-250-204 ..... c 36 N74-21091 *
US-PATENT-CLASS-250-205 ..... c 14 N72-27411 *
US-PATENT-CLASS-250-205 ..... c 09 N73-14214 *
US-PATENT-CLASS-250-205 ..... c 36 N74-13205 *
US-PATENT-CLASS-250-206 ..... c 10 N71-20782 *
US-PATENT-CLASS-250-207 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-207 ..... c 14 N73-32317 *
US-PATENT-CLASS-250-207 ..... c 33 N74-27882 *
US-PATENT-CLASS-250-209 ..... c 14 N72-20379 *
US-PATENT-CLASS-250-209 ..... c 07 N89-30990 * #
US-PATENT-CLASS-250-209 ..... c 20 N71-16340 *
US-PATENT-CLASS-250-209 ..... c 10 N72-17173 *
US-PATENT-CLASS-250-209 ..... c 14 N72-25408 *
US-PATENT-CLASS-250-209 ..... c 14 N73-16483 *
US-PATENT-CLASS-250-209 ..... c 14 N73-28432 *
US-PATENT-CLASS-250-209 ..... c 14 N73-28490 *
US-PATENT-CLASS-250-209 ..... c 21 N73-30640 *
US-PATENT-CLASS-250-209 ..... c 44 N81-24520 *
US-PATENT-CLASS-250-211J ..... c 09 N72-17152 *
US-PATENT-CLASS-250-211J ..... c 09 N73-14214 *
US-PATENT-CLASS-250-211J ..... c 35 N74-15090 *
US-PATENT-CLASS-250-211K ..... c 74 N77-22951 *
US-PATENT-CLASS-250-211K ..... c 44 N80-18552 *
US-PATENT-CLASS-250-211K ..... c 09 N86-27288 *
US-PATENT-CLASS-250-211R ..... c 36 N75-18852 *
US-PATENT-CLASS-250-211R ..... c 35 N75-23910 *
US-PATENT-CLASS-250-212 ..... c 03 N71-23354 *
US-PATENT-CLASS-250-212 ..... c 03 N73-20040 *
US-PATENT-CLASS-250-212 ..... c 09 N73-32109 *
US-PATENT-CLASS-250-213VT ..... c 74 N79-18905 *
US-PATENT-CLASS-250-214AL ..... c 74 N79-12890 *
US-PATENT-CLASS-250-214A ..... c 33 N77-14335 *
US-PATENT-CLASS-250-214R ..... c 14 N73-28490 *
US-PATENT-CLASS-250-214R ..... c 74 N79-12890 *
US-PATENT-CLASS-250-214 ..... c 14 N73-25462 *
US-PATENT-CLASS-250-214 ..... c 14 N73-25462 *
US-PATENT-CLASS-250-214 ..... c 35 N74-15090 *
US-PATENT-CLASS-250-214 ..... c 33 N82-29540 *
US-PATENT-CLASS-250-215 ..... c 14 N73-16483 *
US-PATENT-CLASS-250-216 ..... c 74 N79-34011 *
US-PATENT-CLASS-250-216 ..... c 74 N82-24072 *
US-PATENT-CLASS-250-216 ..... c 74 N89-14077 *
US-PATENT-CLASS-250-217F ..... c 14 N72-16484 *
US-PATENT-CLASS-250-217R ..... c 14 N73-19419 *
US-PATENT-CLASS-250-217SS ..... c 09 N73-14214 *
US-PATENT-CLASS-250-217SS ..... c 36 N74-15145 *
US-PATENT-CLASS-250-217 ..... c 14 N89-29896 * #
US-PATENT-CLASS-250-217 ..... c 14 N73-16483 *
US-PATENT-CLASS-250-217 ..... c 36 N74-13205 *
US-PATENT-CLASS-250-218 ..... c 14 N71-22896 *
US-PATENT-CLASS-250-218 ..... c 14 N71-28994 *
US-PATENT-CLASS-250-218 ..... c 74 N78-33913 *
US-PATENT-CLASS-250-219DF ..... c 91 N74-13130 *
US-PATENT-CLASS-250-219TH ..... c 26 N73-26751 *
US-PATENT-CLASS-250-220 ..... c 14 N71-25983 *
US-PATENT-CLASS-250-221 ..... c 33 N82-29540 *
US-PATENT-CLASS-250-221 ..... c 74 N85-22139 *
US-PATENT-CLASS-250-225 ..... c 14 N71-24884 *
US-PATENT-CLASS-250-225 ..... c 14 N72-27409 *
US-PATENT-CLASS-250-225 ..... c 32 N86-20847 *
US-PATENT-CLASS-250-226 ..... c 14 N72-25409 *
US-PATENT-CLASS-250-226 ..... c 43 N79-17088 *

US-PATENT-CLASS-250-226 ..... c 74 N82-30871 *
US-PATENT-CLASS-250-227 ..... c 14 N71-22981 *
US-PATENT-CLASS-250-227 ..... c 14 N71-23240 *
US-PATENT-CLASS-250-227 ..... c 60 N77-14751 *
US-PATENT-CLASS-250-227 ..... c 74 N78-33913 *
US-PATENT-CLASS-250-227 ..... c 74 N83-19587 *
US-PATENT-CLASS-250-227 ..... c 74 N84-11921 *
US-PATENT-CLASS-250-228 ..... c 74 N86-26190 *
US-PATENT-CLASS-250-229 ..... c 08 N73-30135 *
US-PATENT-CLASS-250-229 ..... c 74 N80-22383 *
US-PATENT-CLASS-250-231-QY c 74 N87-23259 *
US-PATENT-CLASS-250-231R ... c 74 N82-30071 *
US-PATENT-CLASS-250-231SE .. c 74 N74-21304 *
US-PATENT-CLASS-250-231SE .. c 44 N80-16552 *
US-PATENT-CLASS-250-231 ..... c 14 N73-20475 *
US-PATENT-CLASS-250-232 ..... c 23 N71-21821 *
US-PATENT-CLASS-250-233 ..... c 23 N71-16100 *
US-PATENT-CLASS-250-234 ..... c 03 N73-20040 *
US-PATENT-CLASS-250-235 ..... c 14 N72-11384 *
US-PATENT-CLASS-250-235 ..... c 43 N82-13486 *
US-PATENT-CLASS-250-235 ..... c 74 N82-24072 *
US-PATENT-CLASS-250-236 ..... c 21 N73-30640 *
US-PATENT-CLASS-250-236 ..... c 43 N82-13486 *
US-PATENT-CLASS-250-237G ... c 74 N79-20806 *
US-PATENT-CLASS-250-237R ... c 08 N73-30135 *
US-PATENT-CLASS-250-237R ... c 18 N74-15089 *
US-PATENT-CLASS-250-237 ..... c 14 N89-24331 * #
US-PATENT-CLASS-250-239 ..... c 33 N75-31332 *
US-PATENT-CLASS-250-238 ..... c 32 N77-26346 *
US-PATENT-CLASS-250-239 ..... c 37 N87-23982 *
US-PATENT-CLASS-250-239 ..... c 08 N73-30135 *
US-PATENT-CLASS-250-239 ..... c 74 N78-33913 *
US-PATENT-CLASS-250-251 ..... c 35 N78-15431 *
US-PATENT-CLASS-250-251 ..... c 35 N84-33767 *
US-PATENT-CLASS-250-251 ..... c 72 N87-21061 *
US-PATENT-CLASS-250-251 ..... c 72 N89-24253 *
US-PATENT-CLASS-250-252.1 ... c 35 N84-33767 *
US-PATENT-CLASS-250-252 ..... c 72 N89-29109 *
US-PATENT-CLASS-250-253 ..... c 43 N79-31706 *
US-PATENT-CLASS-250-272 ..... c 74 N78-15880 *
US-PATENT-CLASS-250-272 ..... c 43 N79-31706 *
US-PATENT-CLASS-250-277CH .. c 76 N79-24950 *
US-PATENT-CLASS-250-277CH .. c 74 N80-21140 *
US-PATENT-CLASS-250-280 ..... c 76 N79-24950 *
US-PATENT-CLASS-250-280 ..... c 74 N80-21140 *
US-PATENT-CLASS-250-281 ..... c 35 N74-34857 *
US-PATENT-CLASS-250-281 ..... c 35 N78-16383 *
US-PATENT-CLASS-250-281 ..... c 36 N77-26477 *
US-PATENT-CLASS-250-281 ..... c 72 N80-14977 *
US-PATENT-CLASS-250-282 ..... c 36 N77-26477 *
US-PATENT-CLASS-250-282 ..... c 72 N80-14977 *
US-PATENT-CLASS-250-282 ..... c 35 N83-27194 *
US-PATENT-CLASS-250-283 ..... c 36 N77-26477 *
US-PATENT-CLASS-250-287 ..... c 35 N78-15431 *
US-PATENT-CLASS-250-287 ..... c 35 N78-16383 *
US-PATENT-CLASS-250-288 ..... c 35 N78-16383 *
US-PATENT-CLASS-250-289 ..... c 35 N77-32436 *
US-PATENT-CLASS-250-289 ..... c 35 N83-27194 *
US-PATENT-CLASS-250-289 ..... c 72 N87-21060 *
US-PATENT-CLASS-250-289 ..... c 35 N77-14436 *
US-PATENT-CLASS-250-290 ..... c 35 N77-10492 *
US-PATENT-CLASS-250-291 ..... c 35 N77-10492 *
US-PATENT-CLASS-250-295 ..... c 35 N74-34857 *
US-PATENT-CLASS-250-296 ..... c 35 N84-28010 *
US-PATENT-CLASS-250-298 ..... c 35 N77-14436 *
US-PATENT-CLASS-250-304 ..... c 25 N74-26947 *
US-PATENT-CLASS-250-305 ..... c 72 N84-28575 *
US-PATENT-CLASS-250-307 ..... c 25 N80-20334 *
US-PATENT-CLASS-250-309 ..... c 25 N80-20334 *
US-PATENT-CLASS-250-310 ..... c 35 N78-10429 *
US-PATENT-CLASS-250-310 ..... c 33 N80-14332 *
US-PATENT-CLASS-250-310 ..... c 35 N80-20051 *
US-PATENT-CLASS-250-311 ..... c 33 N83-19598 *
US-PATENT-CLASS-250-320 ..... c 74 N79-15880 *
US-PATENT-CLASS-250-322 ..... c 35 N79-15481 *
US-PATENT-CLASS-250-330 ..... c 44 N82-32841 *
US-PATENT-CLASS-250-332 ..... c 35 N75-19813 *
US-PATENT-CLASS-250-332 ..... c 31 N79-25256 *
US-PATENT-CLASS-250-332 ..... c 35 N82-31650 *
US-PATENT-CLASS-250-332 ..... c 74 N83-19587 *
US-PATENT-CLASS-250-332 ..... c 74 N84-28590 *
US-PATENT-CLASS-250-335 ..... c 34 N76-18374 *
US-PATENT-CLASS-250-336.1 ... c 72 N86-33127 *
US-PATENT-CLASS-250-338 ..... c 14 N73-29468 *
US-PATENT-CLASS-250-336 ..... c 35 N79-15433 *
US-PATENT-CLASS-250-336 ..... c 33 N79-27473 *
US-PATENT-CLASS-250-336 ..... c 35 N79-13400 *
US-PATENT-CLASS-250-336 ..... c 35 N74-16089 *
US-PATENT-CLASS-250-336 ..... c 35 N77-10493 *
US-PATENT-CLASS-250-336 ..... c 47 N77-10753 *
US-PATENT-CLASS-250-336 ..... c 35 N80-29635 *
US-PATENT-CLASS-250-336 ..... c 35 N83-21311 *
US-PATENT-CLASS-250-336 ..... c 74 N84-28590 *
US-PATENT-CLASS-250-336 ..... c 72 N86-33127 *
US-PATENT-CLASS-250-336 ..... c 76 N87-13313 *
US-PATENT-CLASS-250-339 ..... c 35 N77-10493 *

US-PATENT-CLASS-250-339 ..... c 47 N77-10753 *
US-PATENT-CLASS-250-339 ..... c 35 N84-33766 *
US-PATENT-CLASS-250-339 ..... c 36 N85-21631 *
US-PATENT-CLASS-250-339 ..... c 36 N85-29264 *
US-PATENT-CLASS-250-339 ..... c 36 N87-28006 *
US-PATENT-CLASS-250-340 ..... c 35 N78-29551 *
US-PATENT-CLASS-250-340 ..... c 74 N83-19587 *
US-PATENT-CLASS-250-340 ..... c 72 N86-33127 *
US-PATENT-CLASS-250-341 ..... c 32 N87-21206 *
US-PATENT-CLASS-250-343 ..... c 35 N74-11284 *
US-PATENT-CLASS-250-343 ..... c 25 N74-26947 *
US-PATENT-CLASS-250-343 ..... c 45 N75-27585 *
US-PATENT-CLASS-250-343 ..... c 74 N78-20956 *
US-PATENT-CLASS-250-343 ..... c 25 N78-22323 *
US-PATENT-CLASS-250-343 ..... c 35 N77-14411 *
US-PATENT-CLASS-250-343 ..... c 35 N78-13400 *
US-PATENT-CLASS-250-343 ..... c 25 N81-14015 *
US-PATENT-CLASS-250-343 ..... c 35 N84-34706 *
US-PATENT-CLASS-250-343 ..... c 36 N85-21631 *
US-PATENT-CLASS-250-343 ..... c 36 N87-29006 *
US-PATENT-CLASS-250-344 ..... c 25 N78-22323 *
US-PATENT-CLASS-250-344 ..... c 74 N78-17867 *
US-PATENT-CLASS-250-345 ..... c 45 N75-27585 *
US-PATENT-CLASS-250-347 ..... c 36 N77-10493 *
US-PATENT-CLASS-250-347 ..... c 47 N77-10753 *
US-PATENT-CLASS-250-347 ..... c 74 N80-33210 *
US-PATENT-CLASS-250-350 ..... c 25 N81-25159 *
US-PATENT-CLASS-250-350 ..... c 74 N83-19587 *
US-PATENT-CLASS-250-351 ..... c 35 N75-30502 *
US-PATENT-CLASS-250-351 ..... c 35 N78-13400 *
US-PATENT-CLASS-250-351 ..... c 74 N83-19587 *
US-PATENT-CLASS-250-351 ..... c 35 N84-34706 *
US-PATENT-CLASS-250-352 ..... c 31 N79-17029 *
US-PATENT-CLASS-250-352 ..... c 34 N79-20336 *
US-PATENT-CLASS-250-352 ..... c 36 N80-29836 *
US-PATENT-CLASS-250-352 ..... c 74 N80-33210 *
US-PATENT-CLASS-250-352 ..... c 37 N87-23982 *
US-PATENT-CLASS-250-353 ..... c 36 N78-29551 *
US-PATENT-CLASS-250-353 ..... c 35 N80-29635 *
US-PATENT-CLASS-250-353 ..... c 74 N80-33210 *
US-PATENT-CLASS-250-356.1 ... c 47 N84-28292 *
US-PATENT-CLASS-250-359 ..... c 37 N75-26372 *
US-PATENT-CLASS-250-360 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-361 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-363R ... c 52 N77-14737 *
US-PATENT-CLASS-250-363R ... c 74 N79-20857 *
US-PATENT-CLASS-250-363R ... c 74 N84-11920 *
US-PATENT-CLASS-250-363S ... c 74 N84-11920 *
US-PATENT-CLASS-250-363S ... c 35 N85-30281 *
US-PATENT-CLASS-250-367 ..... c 35 N84-33766 *
US-PATENT-CLASS-250-368 ..... c 74 N81-24900 *
US-PATENT-CLASS-250-388 ..... c 74 N84-11920 *
US-PATENT-CLASS-250-389 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-389 ..... c 35 N82-32859 *
US-PATENT-CLASS-250-389 ..... c 35 N85-30281 *
US-PATENT-CLASS-250-370 ..... c 35 N74-16088 *
US-PATENT-CLASS-250-370 ..... c 33 N75-31332 *
US-PATENT-CLASS-250-370 ..... c 35 N82-31689 *
US-PATENT-CLASS-250-370 ..... c 44 N82-32841 *
US-PATENT-CLASS-250-370 ..... c 76 N87-13313 *
US-PATENT-CLASS-250-371 ..... c 35 N74-16089 *
US-PATENT-CLASS-250-372 ..... c 19 N74-25410 *
US-PATENT-CLASS-250-372 ..... c 24 N76-24363 *
US-PATENT-CLASS-250-372 ..... c 33 N76-27473 *
US-PATENT-CLASS-250-372 ..... c 35 N83-21311 *
US-PATENT-CLASS-250-372 ..... c 35 N84-33767 *
US-PATENT-CLASS-250-373 ..... c 25 N74-26947 *
US-PATENT-CLASS-250-373 ..... c 35 N75-30502 *
US-PATENT-CLASS-250-373 ..... c 45 N79-17856 *
US-PATENT-CLASS-250-373 ..... c 36 N87-29006 *
US-PATENT-CLASS-250-374 ..... c 35 N74-26949 *
US-PATENT-CLASS-250-374 ..... c 35 N85-34374 *
US-PATENT-CLASS-250-379 ..... c 35 N85-34374 *
US-PATENT-CLASS-250-385 ..... c 35 N74-26949 *
US-PATENT-CLASS-250-385 ..... c 35 N75-27231 *
US-PATENT-CLASS-250-385 ..... c 35 N78-15433 *
US-PATENT-CLASS-250-385 ..... c 35 N78-16393 *
US-PATENT-CLASS-250-385 ..... c 35 N82-24471 *
US-PATENT-CLASS-250-385 ..... c 35 N84-33785 *
US-PATENT-CLASS-250-386 ..... c 35 N82-24471 *
US-PATENT-CLASS-250-389 ..... c 33 N83-24703 *
US-PATENT-CLASS-250-389 ..... c 35 N82-24471 *
US-PATENT-CLASS-250-394 ..... c 14 N73-30392 *
US-PATENT-CLASS-250-394 ..... c 19 N74-25410 *
US-PATENT-CLASS-250-396.ME. c 35 N80-20351 *
US-PATENT-CLASS-250-396.R ... c 72 N87-21061 *
US-PATENT-CLASS-250-396.R ... c 35 N80-20351 *
US-PATENT-CLASS-250-396 ..... c 35 N77-14406 *
US-PATENT-CLASS-250-397 ..... c 72 N89-29169 *
US-PATENT-CLASS-250-398 ..... c 35 N79-10429 *
US-PATENT-CLASS-250-400 ..... c 25 N76-29379 *
US-PATENT-CLASS-250-400 ..... c 25 N79-27226 *
US-PATENT-CLASS-250-41.9C ... c 14 N72-29464 *
US-PATENT-CLASS-250-41.9C ... c 14 N73-12444 *
US-PATENT-CLASS-250-41.95 ... c 14 N73-12444 *
US-PATENT-CLASS-250-41.95 ... c 14 N71-26962 *

US-PATENT-CLASS-250-41.9 ..... c 06 N71-13481 *
US-PATENT-CLASS-250-41.9 ..... c 24 N71-16096 *
US-PATENT-CLASS-250-41.9 ..... c 14 N71-23041 *
US-PATENT-CLASS-250-41.9 ..... c 14 N71-26863 *
US-PATENT-CLASS-250-41.9 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-41.9 ..... c 14 N73-32325 *
US-PATENT-CLASS-250-416TV ... c 35 N79-15481 *
US-PATENT-CLASS-250-423-P ... c 72 N87-21061 *
US-PATENT-CLASS-250-423-P ... c 25 N86-24732 *
US-PATENT-CLASS-250-423-R ... c 33 N87-21234 *
US-PATENT-CLASS-250-423-R ... c 72 N87-21060 *
US-PATENT-CLASS-250-423-R ... c 72 N86-24253 *
US-PATENT-CLASS-250-423P ..... c 36 N77-26477 *
US-PATENT-CLASS-250-423P ..... c 25 N79-25149 *
US-PATENT-CLASS-250-423P ..... c 72 N80-14877 *
US-PATENT-CLASS-250-423 ..... c 35 N76-15431 *
US-PATENT-CLASS-250-423 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-423 ..... c 35 N83-27194 *
US-PATENT-CLASS-250-424 ..... c 72 N87-21060 *
US-PATENT-CLASS-250-426 ..... c 33 N85-21431 *
US-PATENT-CLASS-250-427 ..... c 72 N80-27163 *
US-PATENT-CLASS-250-427 ..... c 72 N87-21060 *
US-PATENT-CLASS-250-427 ..... c 72 N86-24253 *
US-PATENT-CLASS-250-427 ..... c 25 N86-24732 *
US-PATENT-CLASS-250-429 ..... c 25 N76-29379 *
US-PATENT-CLASS-250-429 ..... c 25 N79-27226 *
US-PATENT-CLASS-250-43.5FC .. c 14 N72-11385 *
US-PATENT-CLASS-250-43.5R ... c 14 N71-27090 *
US-PATENT-CLASS-250-43.5R ... c 14 N72-21439 *
US-PATENT-CLASS-250-43.5R ... c 06 N72-25146 *
US-PATENT-CLASS-250-43.5R ... c 06 N72-31141 *
US-PATENT-CLASS-250-43.5 ..... c 27 N71-16349 *
US-PATENT-CLASS-250-43.5 ..... c 15 N71-24836 *
US-PATENT-CLASS-250-43.5 ..... c 14 N71-25901 *
US-PATENT-CLASS-250-432R ..... c 25 N76-22303 *
US-PATENT-CLASS-250-432 ..... c 45 N75-27585 *
US-PATENT-CLASS-250-444 ..... c 52 N77-14737 *
US-PATENT-CLASS-250-457 ..... c 35 N80-29680 *
US-PATENT-CLASS-250-459.1 ... c 35 N80-22770 *
US-PATENT-CLASS-250-460 ..... c 37 N75-26372 *
US-PATENT-CLASS-250-461.1 ... c 35 N80-22770 *
US-PATENT-CLASS-250-474.1 ... c 35 N83-21311 *
US-PATENT-CLASS-250-475 ..... c 35 N79-10389 *
US-PATENT-CLASS-250-483.1 ... c 35 N84-33766 *
US-PATENT-CLASS-250-483 ..... c 74 N79-20857 *
US-PATENT-CLASS-250-483 ..... c 74 N81-24900 *
US-PATENT-CLASS-250-489 ..... c 35 N78-15433 *
US-PATENT-CLASS-250-49.5B ... c 24 N72-11385 *
US-PATENT-CLASS-250-49.5TE .. c 24 N72-11385 *
US-PATENT-CLASS-250-49.5 ..... c 14 N80-29662 * #
US-PATENT-CLASS-250-49.5 ..... c 14 N71-26962 *
US-PATENT-CLASS-250-49.5 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-491 ..... c 35 N80-29680 *
US-PATENT-CLASS-250-492A ..... c 33 N80-14332 *
US-PATENT-CLASS-250-492B ..... c 25 N79-27226 *
US-PATENT-CLASS-250-492R ..... c 25 N76-29379 *
US-PATENT-CLASS-250-492R ..... c 29 N78-24365 *
US-PATENT-CLASS-250-492 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-492 ..... c 37 N75-26372 *
US-PATENT-CLASS-250-493 ..... c 73 N75-30678 *
US-PATENT-CLASS-250-496 ..... c 74 N75-12732 *
US-PATENT-CLASS-250-496 ..... c 73 N75-30678 *
US-PATENT-CLASS-250-498 ..... c 52 N77-14737 *
US-PATENT-CLASS-250-499 ..... c 73 N74-28767 *
US-PATENT-CLASS-250-499 ..... c 72 N76-15880 *
US-PATENT-CLASS-250-499 ..... c 37 N78-13439 *
US-PATENT-CLASS-250-500 ..... c 72 N76-15880 *
US-PATENT-CLASS-250-505 ..... c 74 N74-27989 *
US-PATENT-CLASS-250-505 ..... c 35 N75-19819 *
US-PATENT-CLASS-250-506 ..... c 35 N75-19819 *
US-PATENT-CLASS-250-51.5 ..... c 23 N73-13882 *
US-PATENT-CLASS-250-51.5 ..... c 14 N73-29401 *
US-PATENT-CLASS-250-510 ..... c 35 N75-19819 *
US-PATENT-CLASS-250-511 ..... c 74 N74-27989 *
US-PATENT-CLASS-250-513 ..... c 35 N80-29680 *
US-PATENT-CLASS-250-518 ..... c 14 N73-30392 *
US-PATENT-CLASS-250-51 ..... c 24 N72-11385 *
US-PATENT-CLASS-250-527 ..... c 37 N78-19459 *
US-PATENT-CLASS-250-527 ..... c 25 N77-32255 *
US-PATENT-CLASS-250-527 ..... c 44 N77-32585 *
US-PATENT-CLASS-250-527 ..... c 44 N79-11470 *
US-PATENT-CLASS-250-527 ..... c 44 N82-18475 *
US-PATENT-CLASS-250-528 ..... c 25 N79-25149 *
US-PATENT-CLASS-250-52 ..... c 15 N71-15830 *
US-PATENT-CLASS-250-52 ..... c 11 N71-23042 *
US-PATENT-CLASS-250-52 ..... c 24 N72-11385 *
US-PATENT-CLASS-250-52 ..... c 23 N73-13882 *
US-PATENT-CLASS-250-531 ..... c 25 N79-25149 *
US-PATENT-CLASS-250-531 ..... c 33 N79-15245 *
US-PATENT-CLASS-250-540 ..... c 33 N79-15245 *
US-PATENT-CLASS-250-541 ..... c 33 N79-15245 *
US-PATENT-CLASS-250-551 ..... c 74 N79-24511 *
US-PATENT-CLASS-250-563 ..... c 38 N79-17396 *
US-PATENT-CLASS-250-566 ..... c 74 N75-25708 *
US-PATENT-CLASS-250-571 ..... c 36 N79-14389 *
US-PATENT-CLASS-250-572 ..... c 39 N79-17396 *

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US-PATENT-CLASS-250-573 ... c 74 N78-20958 *
US-PATENT-CLASS-250-573 ... c 34 N83-31983 *
US-PATENT-CLASS-250-574 ... c 45 N78-21742 *
US-PATENT-CLASS-250-574 ... c 38 N77-25501 *
US-PATENT-CLASS-250-576 ... c 35 N74-27980 *
US-PATENT-CLASS-250-578 ... c 38 N75-19852 *
US-PATENT-CLASS-250-65F ... c 15 N72-25452 *
US-PATENT-CLASS-250-65R ... c 14 N73-30399 *
US-PATENT-CLASS-250-71.5R ... c 14 N72-20464 *
US-PATENT-CLASS-250-71.5 ... c 14 N72-17329 *
US-PATENT-CLASS-250-71R ... c 06 N73-16106 *
US-PATENT-CLASS-250-71 ... c 14 N70-41676 *
US-PATENT-CLASS-250-83.3H ... c 14 N72-21408 *
US-PATENT-CLASS-250-83.3H ... c 14 N72-24477 *
US-PATENT-CLASS-250-83.3H ... c 14 N73-12445 *
US-PATENT-CLASS-250-83.3H ... c 14 N73-20475 *
US-PATENT-CLASS-250-83.3H ... c 14 N73-25462 *
US-PATENT-CLASS-250-83.3R ... c 14 N73-12445 *
US-PATENT-CLASS-250-83.3R ... c 14 N73-20477 *
US-PATENT-CLASS-250-83.3R ... c 14 N73-32317 *
US-PATENT-CLASS-250-83.3UV ... c 10 N72-17173 *
US-PATENT-CLASS-250-83.3UV ... c 14 N72-25409 *
US-PATENT-CLASS-250-83.3UV ... c 06 N73-16106 *
US-PATENT-CLASS-250-83.3 ... c 21 N70-33181 *
US-PATENT-CLASS-250-83.3 ... c 21 N70-34297 *
US-PATENT-CLASS-250-83.3 ... c 14 N71-15589 *
US-PATENT-CLASS-250-83.3 ... c 14 N71-19899 *
US-PATENT-CLASS-250-83.3 ... c 14 N71-21089 *
US-PATENT-CLASS-250-83.3 ... c 09 N71-22985 *
US-PATENT-CLASS-250-83.3 ... c 14 N71-25901 *
US-PATENT-CLASS-250-83.3 ... c 14 N71-26475 *
US-PATENT-CLASS-250-83.3 ... c 14 N71-27323 *
US-PATENT-CLASS-250-83.3 ... c 14 N72-17328 *
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US-PATENT-CLASS-250-83.6R ... c 14 N71-27090 *
US-PATENT-CLASS-250-83.6R ... c 14 N72-20381 *
US-PATENT-CLASS-250-83.6R ... c 25 N72-33696 *
US-PATENT-CLASS-250-83.6R ... c 74 N81-19899 *
US-PATENT-CLASS-250-83.6 ... c 10 N70-41991 *
US-PATENT-CLASS-250-83CD ... c 91 N74-13130 *
US-PATENT-CLASS-250-83R ... c 14 N73-12445 *
US-PATENT-CLASS-250-83R ... c 14 N73-20477 *
US-PATENT-CLASS-250-83 ... c 14 N69-27484 * g
US-PATENT-CLASS-250-83 ... c 14 N69-39937 * g
US-PATENT-CLASS-250-83 ... c 09 N71-18830 * g
US-PATENT-CLASS-250-83 ... c 05 N71-19440 *
US-PATENT-CLASS-250-83 ... c 14 N71-20430 *
US-PATENT-CLASS-250-83 ... c 14 N71-23401 *
US-PATENT-CLASS-250-83 ... c 09 N71-27232 *
US-PATENT-CLASS-250-84 ... c 14 N71-24809 *
US-PATENT-CLASS-251-118 ... c 15 N71-18590 *
US-PATENT-CLASS-251-11 ... c 15 N70-35407 *
US-PATENT-CLASS-251-120 ... c 37 N74-21065 *
US-PATENT-CLASS-251-121 ... c 15 N71-18580 *
US-PATENT-CLASS-251-122 ... c 15 N73-13462 *
US-PATENT-CLASS-251-122 ... c 37 N74-21065 *
US-PATENT-CLASS-251-127 ... c 12 N71-18615 *
US-PATENT-CLASS-251-127 ... c 44 N84-14583 *
US-PATENT-CLASS-251-129.15 ... c 37 N87-25573 *
US-PATENT-CLASS-251-129 ... c 15 N72-20442 *
US-PATENT-CLASS-251-136 ... c 37 N80-23654 *
US-PATENT-CLASS-251-148 ... c 15 N71-23024 *
US-PATENT-CLASS-251-149.6 ... c 37 N76-14463 *
US-PATENT-CLASS-251-149.9 ... c 37 N79-11402 *
US-PATENT-CLASS-251-165 ... c 37 N87-21332 *
US-PATENT-CLASS-251-172 ... c 15 N71-21234 *
US-PATENT-CLASS-251-172 ... c 37 N79-33469 *
US-PATENT-CLASS-251-173 ... c 15 N70-33379 *
US-PATENT-CLASS-251-175 ... c 37 N87-25573 *
US-PATENT-CLASS-251-210 ... c 37 N74-21065 *
US-PATENT-CLASS-251-216 ... c 37 N81-17433 *
US-PATENT-CLASS-251-285 ... c 37 N85-20338 *
US-PATENT-CLASS-251-287 ... c 37 N85-20339 *
US-PATENT-CLASS-251-294 ... c 37 N85-20336 *
US-PATENT-CLASS-251-297 ... c 37 N85-20336 *
US-PATENT-CLASS-251-31 ... c 15 N71-19480 *
US-PATENT-CLASS-251-325 ... c 37 N85-29264 *
US-PATENT-CLASS-251-331 ... c 15 N72-31463 *
US-PATENT-CLASS-251-333 ... c 15 N70-34650 *
US-PATENT-CLASS-251-333 ... c 12 N71-18615 *
US-PATENT-CLASS-251-333 ... c 15 N72-20442 *
US-PATENT-CLASS-251-333 ... c 37 N75-25165 *
US-PATENT-CLASS-251-339 ... c 37 N81-17433 *
US-PATENT-CLASS-251-342 ... c 12 N71-18615 *
US-PATENT-CLASS-251-349 ... c 37 N85-29264 *
US-PATENT-CLASS-251-353 ... c 37 N85-29264 *
US-PATENT-CLASS-251-358 ... c 15 N71-17548 *
US-PATENT-CLASS-251-360 ... c 15 N72-25451 *
US-PATENT-CLASS-251-61.1 ... c 12 N71-18615 *
US-PATENT-CLASS-251-61 ... c 15 N71-10779 *
US-PATENT-CLASS-251-7 ... c 37 N79-28550 *
US-PATENT-CLASS-251-66 ... c 15 N72-31463 *
US-PATENT-CLASS-251-66 ... c 37 N80-23654 *
US-PATENT-CLASS-252-12.2 ... c 24 N79-17916 *
US-PATENT-CLASS-252-12 ... c 15 N71-23810 *

US-PATENT-CLASS-252-12 ... c 24 N76-22309 *
US-PATENT-CLASS-252-182.1 ... c 33 N84-14422 *
US-PATENT-CLASS-252-26 ... c 15 N71-21403 *
US-PATENT-CLASS-252-26 ... c 15 N71-24046 *
US-PATENT-CLASS-252-2 ... c 25 N83-36118 *
US-PATENT-CLASS-252-300 ... c 14 N72-22443 *
US-PATENT-CLASS-252-300 ... c 24 N76-24363 *
US-PATENT-CLASS-252-301.1R ... c 35 N79-10389 *
US-PATENT-CLASS-252-301.16 ... c 35 N79-10389 *
US-PATENT-CLASS-252-301.2 ... c 19 N71-27170 *
US-PATENT-CLASS-252-301.4 ... c 06 N73-30097 *
US-PATENT-CLASS-252-305 ... c 06 N73-30097 *
US-PATENT-CLASS-252-358A ... c 37 N77-13418 *
US-PATENT-CLASS-252-361 ... c 71 N83-35781 *
US-PATENT-CLASS-252-364 ... c 28 N81-15119 *
US-PATENT-CLASS-252-373 ... c 44 N76-29704 *
US-PATENT-CLASS-252-373 ... c 44 N77-10836 *
US-PATENT-CLASS-252-408 ... c 14 N73-14428 *
US-PATENT-CLASS-252-422 ... c 45 N82-11634 *
US-PATENT-CLASS-252-431N ... c 06 N73-32029 *
US-PATENT-CLASS-252-431R ... c 06 N73-32029 *
US-PATENT-CLASS-252-472 ... c 25 N78-10225 *
US-PATENT-CLASS-252-514 ... c 05 N72-25120 *
US-PATENT-CLASS-252-514 ... c 44 N79-31752 *
US-PATENT-CLASS-252-514 ... c 25 N82-28398 *
US-PATENT-CLASS-252-518 ... c 24 N79-14156 *
US-PATENT-CLASS-252-549 ... c 23 N75-14834 *
US-PATENT-CLASS-252-58 ... c 19 N70-39897 *
US-PATENT-CLASS-252-5 ... c 25 N83-33977 *
US-PATENT-CLASS-252-5 ... c 25 N83-36118 *
US-PATENT-CLASS-252-62.3E ... c 44 N80-24741 *
US-PATENT-CLASS-252-62.3E ... c 44 N81-19558 *
US-PATENT-CLASS-252-62.3GA ... c 25 N75-26043 *
US-PATENT-CLASS-252-62.3 ... c 26 N71-23292 *
US-PATENT-CLASS-252-62.3 ... c 76 N78-25049 *
US-PATENT-CLASS-252-62 ... c 27 N74-27037 *
US-PATENT-CLASS-252-70 ... c 23 N75-14834 *
US-PATENT-CLASS-252-8.1 ... c 19 N73-26572 *
US-PATENT-CLASS-252-8.1 ... c 27 N74-27037 *
US-PATENT-CLASS-252-8.1 ... c 24 N78-14096 *
US-PATENT-CLASS-253-317 ... c 44 N77-22606 *
US-PATENT-CLASS-253-39.15 ... c 15 N70-33226 *
US-PATENT-CLASS-253-39.15 ... c 15 N70-33264 *
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US-PATENT-CLASS-253-39.1 ... c 33 N71-29152 *
US-PATENT-CLASS-253-66 ... c 15 N70-36412 *
US-PATENT-CLASS-253-66 ... c 28 N70-39895 *
US-PATENT-CLASS-253-77 ... c 28 N71-29929 *
US-PATENT-CLASS-253-77 ... c 28 N71-29154 *
US-PATENT-CLASS-253 ... c 25 N79-28253 *
US-PATENT-CLASS-254-124 ... c 20 N78-22296 *
US-PATENT-CLASS-254-131 ... c 90 N81-24839 *
US-PATENT-CLASS-254-150 ... c 15 N71-24599 *
US-PATENT-CLASS-254-158 ... c 15 N73-25512 *
US-PATENT-CLASS-254-158 ... c 54 N77-21844 *
US-PATENT-CLASS-254-172 ... c 15 N71-24599 *
US-PATENT-CLASS-254-186 ... c 15 N71-24599 *
US-PATENT-CLASS-254-190 ... c 15 N72-25453 *
US-PATENT-CLASS-254-29A ... c 15 N73-30457 *
US-PATENT-CLASS-254-93-H ... c 35 N88-24827 *
US-PATENT-CLASS-254-93-R ... c 35 N88-24827 *
US-PATENT-CLASS-254-93R ... c 35 N74-13129 *
US-PATENT-CLASS-254-93R ... c 20 N78-22296 *
US-PATENT-CLASS-256-13.1 ... c 37 N79-10420 *
US-PATENT-CLASS-256-1 ... c 37 N79-10420 *
US-PATENT-CLASS-256-308.2 ... c 27 N86-20961 *
US-PATENT-CLASS-259-DIG.19 ... c 35 N74-15093 *
US-PATENT-CLASS-259-44C ... c 37 N79-19436 *
US-PATENT-CLASS-259-4 ... c 15 N73-19458 *
US-PATENT-CLASS-259-60 ... c 35 N74-15093 *
US-PATENT-CLASS-259-71 ... c 15 N71-21177 *
US-PATENT-CLASS-259-72 ... c 37 N74-18123 *
US-PATENT-CLASS-259-98 ... c 25 N74-15126 *
US-PATENT-CLASS-259/4R ... c 34 N77-24423 *
US-PATENT-CLASS-260-46.5E ... c 27 N74-21156 *
US-PATENT-CLASS-260-DIG.15 ... c 27 N79-14164 *
US-PATENT-CLASS-260-DIG.24 ... c 27 N74-27037 *
US-PATENT-CLASS-260-DIG.29 ... c 27 N76-24405 *
US-PATENT-CLASS-260-DIG.29 ... c 27 N80-24430 *
US-PATENT-CLASS-260-17.2 ... c 24 N80-26399 *
US-PATENT-CLASS-260-17.2 ... c 24 N81-13999 *
US-PATENT-CLASS-260-17.4UC ... c 23 N81-29160 *
US-PATENT-CLASS-260-17A ... c 27 N81-14078 *
US-PATENT-CLASS-260-185 ... c 06 N72-25151 *
US-PATENT-CLASS-260-2.1E ... c 18 N72-22567 *
US-PATENT-CLASS-260-2.1E ... c 27 N81-14078 *
US-PATENT-CLASS-260-2.1E ... c 25 N81-19244 *
US-PATENT-CLASS-260-2.1 ... c 25 N81-17187 *
US-PATENT-CLASS-260-2.2R ... c 25 N81-17187 *
US-PATENT-CLASS-260-2.2R ... c 25 N81-19244 *
US-PATENT-CLASS-260-2.5AX ... c 27 N76-15310 *
US-PATENT-CLASS-260-2.5AX ... c 24 N78-24790 *
US-PATENT-CLASS-260-2.5AM ... c 27 N74-12812 *
US-PATENT-CLASS-260-2.5AM ... c 27 N77-31308 *
US-PATENT-CLASS-260-2.5AP ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5AY ... c 27 N77-31308 *

US-PATENT-CLASS-260-2.5A ... c 27 N77-31308 *
US-PATENT-CLASS-260-2.5BE ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5B ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5EP ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5FP ... c 06 N72-25147 *
US-PATENT-CLASS-260-2.5FP ... c 27 N74-27037 *
US-PATENT-CLASS-260-2.5FP ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5F ... c 18 N73-13562 *
US-PATENT-CLASS-260-2.5L ... c 27 N74-12814 *
US-PATENT-CLASS-260-2.5N ... c 24 N78-15180 *
US-PATENT-CLASS-260-2.5N ... c 27 N78-31232 *
US-PATENT-CLASS-260-2.5R ... c 27 N74-27037 *
US-PATENT-CLASS-260-2.5R ... c 24 N78-15180 *
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US-PATENT-CLASS-260-2.5 ... c 06 N71-24730 *
US-PATENT-CLASS-260-2.5 ... c 06 N71-25929 *
US-PATENT-CLASS-260-2.5 ... c 18 N71-26155 *
US-PATENT-CLASS-260-2.5 ... c 06 N72-25150 *
US-PATENT-CLASS-260-2P ... c 27 N78-32256 *
US-PATENT-CLASS-260-2R ... c 27 N74-18126 *
US-PATENT-CLASS-260-2R ... c 27 N74-27037 *
US-PATENT-CLASS-260-2R ... c 27 N78-15276 *
US-PATENT-CLASS-260-211.5 ... c 06 N72-25148 *
US-PATENT-CLASS-260-240G ... c 27 N76-32315 *
US-PATENT-CLASS-260-245.75 ... c 27 N86-19455 *
US-PATENT-CLASS-260-245.9 ... c 27 N86-19455 *
US-PATENT-CLASS-260-29.5 ... c 27 N78-33228 *
US-PATENT-CLASS-260-29.1R ... c 24 N78-24290 *
US-PATENT-CLASS-260-29.6RB ... c 25 N81-19242 *
US-PATENT-CLASS-260-29.6G ... c 27 N74-17283 *
US-PATENT-CLASS-260-29.6 ... c 26 N75-27125 *
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US-PATENT-CLASS-260-2 ... c 06 N71-20717 *
US-PATENT-CLASS-260-2 ... c 06 N71-20905 *
US-PATENT-CLASS-260-2 ... c 06 N71-27383 *
US-PATENT-CLASS-260-2 ... c 06 N73-30102 *
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US-PATENT-CLASS-260-30.4N ... c 27 N76-17205 *
US-PATENT-CLASS-260-30.6CB ... c 06 N73-27980 *
US-PATENT-CLASS-260-307G ... c 27 N79-22300 *
US-PATENT-CLASS-260-32.2R ... c 27 N76-17205 *
US-PATENT-CLASS-260-32.6NT ... c 27 N76-17205 *
US-PATENT-CLASS-260-32.6N ... c 06 N73-27980 *
US-PATENT-CLASS-260-32.6N ... c 23 N76-15288 *
US-PATENT-CLASS-260-32.8N ... c 23 N76-15288 *
US-PATENT-CLASS-260-326N ... c 27 N81-17280 *
US-PATENT-CLASS-260-326S ... c 27 N81-17280 *
US-PATENT-CLASS-260-33.4R ... c 06 N73-27980 *
US-PATENT-CLASS-260-33.4R ... c 27 N76-17205 *
US-PATENT-CLASS-260-33.4R ... c 27 N81-19298 *
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US-PATENT-CLASS-260-33.6PQ ... c 24 N78-27180 *
US-PATENT-CLASS-260-33.6R ... c 06 N73-27980 *
US-PATENT-CLASS-260-33.6UB ... c 27 N81-15104 *
US-PATENT-CLASS-260-33.8EP ... c 24 N78-27180 *
US-PATENT-CLASS-260-33.8F ... c 27 N76-24405 *
US-PATENT-CLASS-260-33.8F ... c 25 N81-14016 *
US-PATENT-CLASS-260-33.8UA ... c 24 N78-27180 *
US-PATENT-CLASS-260-340.6R ... c 23 N82-16174 *
US-PATENT-CLASS-260-346.3 ... c 23 N75-30258 *
US-PATENT-CLASS-260-346.3 ... c 23 N76-15288 *
US-PATENT-CLASS-260-346.3 ... c 27 N80-32515 *
US-PATENT-CLASS-260-348SC ... c 06 N72-25146 *
US-PATENT-CLASS-260-37EP ... c 24 N78-24290 *
US-PATENT-CLASS-260-37EP ... c 24 N78-27180 *
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US-PATENT-CLASS-260-37EP ... c 27 N81-17280 *
US-PATENT-CLASS-260-37N ... c 27 N79-28307 *
US-PATENT-CLASS-260-37 ... c 19 N71-25881 *
US-PATENT-CLASS-260-37 ... c 27 N81-24259 *
US-PATENT-CLASS-260-386 ... c 25 N82-24312 *
US-PATENT-CLASS-260-386 ... c 23 N86-25604 *
US-PATENT-CLASS-260-386 ... c 25 N80-23687 *
US-PATENT-CLASS-260-389 ... c 25 N82-24312 *
US-PATENT-CLASS-260-389 ... c 23 N86-25604 *
US-PATENT-CLASS-260-395 ... c 23 N86-25604 *
US-PATENT-CLASS-260-395 ... c 25 N80-23687 *
US-PATENT-CLASS-260-398N ... c 27 N74-27037 *
US-PATENT-CLASS-260-404.5 ... c 19 N71-15688 *
US-PATENT-CLASS-260-42.17 ... c 27 N78-17215 *
US-PATENT-CLASS-260-42.43 ... c 24 N78-27180 *
US-PATENT-CLASS-260-429 ... c 06 N71-25930 *
US-PATENT-CLASS-260-42 ... c 27 N79-28307 *
US-PATENT-CLASS-260-446.2D ... c 06 N72-25151 *
US-PATENT-CLASS-260-446.2D ... c 06 N73-32030 *
US-PATENT-CLASS-260-446.2N ... c 27 N74-21058 *
US-PATENT-CLASS-260-446.2 ... c 06 N71-23230 *
US-PATENT-CLASS-260-45.7R ... c 24 N78-27180 *
US-PATENT-CLASS-260-45.7R ... c 27 N82-16238 *
US-PATENT-CLASS-260-45.7NW ... c 24 N78-27180 *
US-PATENT-CLASS-260-45.7 ... c 27 N76-24405 *
US-PATENT-CLASS-260-45.85N ... c 24 N78-27180 *
US-PATENT-CLASS-260-45.9R ... c 24 N78-27180 *
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US-PATENT-CLASS-260-46.5G ... c 06 N72-25151 *

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US-PATENT-CLASS-260-46.5 ... c 06 N71-11237 *
US-PATENT-CLASS-260-46.5 ... c 06 N71-11240 *
US-PATENT-CLASS-260-465.5R ... c 27 N81-24256 *
US-PATENT-CLASS-260-465.5R ... c 27 N84-22744 *
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US-PATENT-CLASS-260-47CP ... c 23 N76-15268 *
US-PATENT-CLASS-260-47CP ... c 27 N76-31232 *
US-PATENT-CLASS-260-47CP ... c 27 N76-32261 *
US-PATENT-CLASS-260-47UP ... c 08 N73-32029 *
US-PATENT-CLASS-260-47 ... c 08 N71-28620 *
US-PATENT-CLASS-260-47 ... c 08 N71-28607 *
US-PATENT-CLASS-260-485F ... c 08 N73-30098 *
US-PATENT-CLASS-260-49 ... c 27 N79-32261 *
US-PATENT-CLASS-260-520 ... c 23 N75-30256 *
US-PATENT-CLASS-260-535H ... c 08 N72-27144 *
US-PATENT-CLASS-260-53 ... c 27 N79-28307 *
US-PATENT-CLASS-260-544-D ... c 27 N86-21675 *
US-PATENT-CLASS-260-544-P ... c 27 N87-14615 *
US-PATENT-CLASS-260-544F ... c 08 N72-20121 *
US-PATENT-CLASS-260-544P ... c 27 N86-27460 *
US-PATENT-CLASS-260-551P ... c 27 N79-32256 *
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US-PATENT-CLASS-260-567.6M ... c 08 N73-32029 *
US-PATENT-CLASS-260-571 ... c 23 N79-15268 *
US-PATENT-CLASS-260-606.5P ... c 27 N79-32258 *
US-PATENT-CLASS-260-615 ... c 08 N71-27254 *
US-PATENT-CLASS-260-615 ... c 08 N73-30101 *
US-PATENT-CLASS-260-63N ... c 27 N79-31232 *
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US-PATENT-CLASS-260-63R ... c 27 N79-32261 *
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US-PATENT-CLASS-260-67 ... c 27 N79-17214 *
US-PATENT-CLASS-260-67 ... c 27 N79-21191 *
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US-PATENT-CLASS-260-77.5AN ... c 27 N79-17213 *
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US-PATENT-CLASS-260-77.5AT ... c 27 N79-17213 *
US-PATENT-CLASS-260-77.5BP ... c 27 N79-17213 *
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US-PATENT-CLASS-260-77.5 ... c 08 N73-30103 *
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US-PATENT-CLASS-260-877 ... c 08 N72-22107 *
US-PATENT-CLASS-260-879 ... c 27 N76-16209 *
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US-PATENT-CLASS-260-93.5S ... c 08 N73-32029 *
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US-PATENT-CLASS-260-94.2R ... c 08 N73-32029 *
US-PATENT-CLASS-260-94.7R ... c 08 N73-32029 *
US-PATENT-CLASS-260-94.9 ... c 27 N73-22710 *
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US-PATENT-CLASS-261-119 ... c 31 N80-18231 *
US-PATENT-CLASS-261-123 ... c 34 N77-24423 *
US-PATENT-CLASS-261-145 ... c 28 N72-22772 *
US-PATENT-CLASS-261-28 ... c 07 N81-20120 *
US-PATENT-CLASS-261-79A ... c 35 N86-29174 *
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US-PATENT-CLASS-263-48 ... c 15 N89-27483 * P
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US-PATENT-CLASS-264-DIG.44 ... c 15 N72-16329 *
US-PATENT-CLASS-264-DIG.64 ... c 27 N86-23884 *
US-PATENT-CLASS-264-DIG.65 ... c 27 N85-20124 *
US-PATENT-CLASS-264-DIG-59 ... c 27 N89-29539 *
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US-PATENT-CLASS-264-204 ... c 27 N86-29039 *
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US-PATENT-CLASS-264-225 ... c 15 N72-16329 *
US-PATENT-CLASS-264-227 ... c 15 N72-16329 *
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US-PATENT-CLASS-264-231 ... c 24 N81-29163 *
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US-PATENT-CLASS-264-6 ... c 27 N80-23588 *
US-PATENT-CLASS-264-70 ... c 44 N79-24432 *
US-PATENT-CLASS-264-71 ... c 44 N79-24432 *
US-PATENT-CLASS-264-90 ... c 24 N79-17150 *
US-PATENT-CLASS-264-92 ... c 15 N71-17855 *
US-PATENT-CLASS-264-92 ... c 15 N72-24522 *
US-PATENT-CLASS-264-9 ... c 31 N81-33319 *
US-PATENT-CLASS-264-9 ... c 31 N83-3[illegible] *
US-PATENT-CLASS-265-119 ... c 20 N80-20402 *
US-PATENT-CLASS-265-19 ... c 15 N70-32362 *
US-PATENT-CLASS-265-249 ... c 29 N80-29402 *
US-PATENT-CLASS-265-24 ... c 17 N72-28529 *
US-PATENT-CLASS-265-274 ... c 26 N80-29492 *
US-PATENT-CLASS-267-150 ... c 37 N86-34401 *
US-PATENT-CLASS-267-166 ... c 34 N76-16557 *
US-PATENT-CLASS-267-1 ... c 15 N89-27554 * P
US-PATENT-CLASS-267-1 ... c 15 N70-38025 *
US-PATENT-CLASS-267-64 ... c 15 N71-21539 *
US-PATENT-CLASS-267-69 ... c 37 N86-34401 *
US-PATENT-CLASS-269-147 ... c 25 N88-24927 *
US-PATENT-CLASS-269-152 ... c 18 N83-26553 *
US-PATENT-CLASS-269-153 ... c 44 N79-16457 *
US-PATENT-CLASS-269-158 ... c 37 N80-14399 *
US-PATENT-CLASS-269-21 ... c 37 N78-21554 *
US-PATENT-CLASS-269-21 ... c 37 N79-17961 *
US-PATENT-CLASS-269-21 ... c 37 N79-27403 *
US-PATENT-CLASS-269-21 ... c 78 N80-10881 *
US-PATENT-CLASS-269-21 ... c 37 N81-33442 *
US-PATENT-CLASS-269-224 ... c 37 N84-28393 *
US-PATENT-CLASS-269-242 ... c 18 N83-26553 *
US-PATENT-CLASS-269-242 ... c 37 N84-28393 *
US-PATENT-CLASS-269-244 ... c 18 N83-26553 *
US-PATENT-CLASS-269-244 ... c 37 N84-28393 *
US-PATENT-CLASS-269-248 ... c 25 N88-24927 *
US-PATENT-CLASS-269-252 ... c 37 N84-28393 *
US-PATENT-CLASS-269-266 ... c 37 N79-27403 *
US-PATENT-CLASS-269-267 ... c 37 N86-33705 *
US-PATENT-CLASS-269-285 ... c 37 N84-28393 *
US-PATENT-CLASS-269-287 ... c 37 N80-23555 *
US-PATENT-CLASS-269-3 ... c 37 N84-12491 *
US-PATENT-CLASS-269-43 ... c 37 N88-14398 *
US-PATENT-CLASS-269-48.1 ... c 39 N74-13131 *
US-PATENT-CLASS-269-71 ... c 37 N88-14398 *
US-PATENT-CLASS-269-73 ... c 37 N88-14398 *
US-PATENT-CLASS-27-466 ... c 15 N73-28515 *
US-PATENT-CLASS-272-DIG.1 ... c 65 N73-32514 *
US-PATENT-CLASS-272-DIG.4 ... c 65 N73-32514 *
US-PATENT-CLASS-272-DIG.5 ... c 65 N73-32514 *
US-PATENT-CLASS-272-1R ... c 65 N75-15982 *
US-PATENT-CLASS-272-57A ... c 65 N75-15982 *
US-PATENT-CLASS-272-70 ... c 65 N71-28619 *

US-PATENT-CLASS-272-73 ..... C 14 N73-27377 *
US-PATENT-CLASS-272-73 ..... C 06 N73-27961 *
US-PATENT-CLASS-272-73 ..... C 37 N74-18127 *
US-PATENT-CLASS-272-79C ..... C 05 N73-32014 *
US-PATENT-CLASS-272-80 ..... C 37 N74-18127 *
US-PATENT-CLASS-273-1E ..... C 05 N73-13114 *
US-PATENT-CLASS-273-240 ..... C 31 N83-34073 *
US-PATENT-CLASS-274-4R ..... C 09 N72-11224 *
US-PATENT-CLASS-277-105 ..... C 37 N82-24490 *
US-PATENT-CLASS-277-116.6 ... C 37 N84-11497 *
US-PATENT-CLASS-277-124 ..... C 37 N84-11497 *
US-PATENT-CLASS-277-134 ..... C 37 N75-21631 *
US-PATENT-CLASS-277-134 ..... C 07 N79-25090 *
US-PATENT-CLASS-277-135 ..... C 37 N85-29284 *
US-PATENT-CLASS-277-13 ..... C 15 N71-26294 *
US-PATENT-CLASS-277-153 ..... C 37 N80-28711 *
US-PATENT-CLASS-277-153 ..... C 37 N81-26447 *
US-PATENT-CLASS-277-158 ..... C 37 N80-23751 *
US-PATENT-CLASS-277-164 ..... C 37 N84-11497 *
US-PATENT-CLASS-277-177 ..... C 37 N84-11497 *
US-PATENT-CLASS-277-181 ..... C 37 N81-15383 *
US-PATENT-CLASS-277-189 ..... C 37 N82-16408 *
US-PATENT-CLASS-277-190 ..... C 37 N84-11497 *
US-PATENT-CLASS-277-192 ..... C 37 N79-22474 *
US-PATENT-CLASS-277-193 ..... C 37 N80-28711 *
US-PATENT-CLASS-277-193 ..... C 37 N81-26447 *
US-PATENT-CLASS-277-1 ..... C 37 N82-24480 *
US-PATENT-CLASS-277-204 ..... C 37 N82-24480 *
US-PATENT-CLASS-277-224 ..... C 37 N80-28711 *
US-PATENT-CLASS-277-229 ..... C 37 N81-15383 *
US-PATENT-CLASS-277-25 ..... C 15 N80-21382 * P
US-PATENT-CLASS-277-25 ..... C 15 N71-186.70 *
US-PATENT-CLASS-277-25 ..... C 15 N72-29489 *
US-PATENT-CLASS-277-25 ..... C 37 N74-10474 *
US-PATENT-CLASS-277-25 ..... C 07 N79-25090 *
US-PATENT-CLASS-277-27 ..... C 15 N72-29488 *
US-PATENT-CLASS-277-27 ..... C 37 N74-10474 *
US-PATENT-CLASS-277-27 ..... C 37 N74-15125 *
US-PATENT-CLASS-277-27 ..... C 37 N75-21631 *
US-PATENT-CLASS-277-27 ..... C 37 N82-12442 *
US-PATENT-CLASS-277-2 ..... C 37 N82-24480 *
US-PATENT-CLASS-277-34 ..... C 37 N80-23751 *
US-PATENT-CLASS-277-40 ..... C 37 N75-21631 *
US-PATENT-CLASS-277-40 ..... C 37 N82-12442 *
US-PATENT-CLASS-277-41 ..... C 37 N79-22541 *
US-PATENT-CLASS-277-4 ..... C 37 N79-22541 *
US-PATENT-CLASS-277-4 ..... C 37 N82-24480 *
US-PATENT-CLASS-277-53 ..... C 37 N86-20798 *
US-PATENT-CLASS-277-59 ..... C 37 N82-24490 *
US-PATENT-CLASS-277-62 ..... C 37 N79-22475 *
US-PATENT-CLASS-277-72R ..... C 37 N82-24490 *
US-PATENT-CLASS-277-74 ..... C 15 N72-29488 *
US-PATENT-CLASS-277-74 ..... C 37 N79-22541 *
US-PATENT-CLASS-277-80 ..... C 37 N85-29284 *
US-PATENT-CLASS-277-81R ..... C 37 N82-16409 *
US-PATENT-CLASS-277-81 ..... C 37 N74-15125 *
US-PATENT-CLASS-277-83R ..... C 37 N79-22541 *
US-PATENT-CLASS-277-83R ..... C 37 N82-12442 *
US-PATENT-CLASS-277-86.1 ..... C 37 N79-22475 *
US-PATENT-CLASS-277-88 ..... C 37 N74-10474 *
US-PATENT-CLASS-277-88 ..... C 37 N81-24442 *
US-PATENT-CLASS-279-19 ..... C 37 N75-33395 *
US-PATENT-CLASS-279-107 ..... C 37 N75-33395 *
US-PATENT-CLASS-279-3 ..... C 37 N79-17383 *
US-PATENT-CLASS-279-60 ..... C 37 N75-33395 *
US-PATENT-CLASS-280-150SB .. C 05 N75-25915 *
US-PATENT-CLASS-280-432 ..... C 37 N77-14477 *
US-PATENT-CLASS-280-47.11 ... C 05 N87-21755 *
US-PATENT-CLASS-280-677 ..... C 37 N80-17153 *
US-PATENT-CLASS-280-682 ..... C 37 N80-17153 *
US-PATENT-CLASS-280-805 ..... C 37 N82-16801 *
US-PATENT-CLASS-285-DIG.21 .. C 15 N72-25450 *
US-PATENT-CLASS-285-DIG.21 .. C 33 N73-29958 *
US-PATENT-CLASS-285-107 ..... C 37 N89-13798 *
US-PATENT-CLASS-285-109 ..... C 37 N89-13798 *
US-PATENT-CLASS-285-109 ..... C 37 N89-13798 *
US-PATENT-CLASS-285-114 ..... C 37 N75-16882 *
US-PATENT-CLASS-285-133.1 ... C 37 N89-13798 *
US-PATENT-CLASS-285-137.1 ... C 35 N87-29884 *
US-PATENT-CLASS-285-159 ..... C 37 N82-24404 *
US-PATENT-CLASS-285-169 ..... C 54 N89-29810 *
US-PATENT-CLASS-285-169 ..... C 54 N89-29820 *
US-PATENT-CLASS-285-169 ..... C 54 N89-29807 * P
US-PATENT-CLASS-285-184 ..... C 54 N89-29807 * P
US-PATENT-CLASS-285-18 ..... C 15 N72-20446 *
US-PATENT-CLASS-285-192 ..... C 20 N78-24275 *
US-PATENT-CLASS-285-226 ..... C 37 N75-19888 *
US-PATENT-CLASS-285-226 ..... C 37 N78-14480 *
US-PATENT-CLASS-285-226 ..... C 19 N89-28503 *
US-PATENT-CLASS-285-237 ..... C 54 N89-29807 * P
US-PATENT-CLASS-285-236 ..... C 54 N78-31735 *
US-PATENT-CLASS-285-236 ..... C 54 N79-24851 *
US-PATENT-CLASS-285-24 ..... C 15 N71-10792 *
US-PATENT-CLASS-285-265 ..... C 37 N78-14480 *
US-PATENT-CLASS-285-27 ..... C 15 N70-41868 *
US-PATENT-CLASS-285-27 ..... C 19 N87-27713 *
US-PATENT-CLASS-285-302 ..... C 19 N89-25298 *
US-PATENT-CLASS-285-305 ..... C 37 N87-22977 *
US-PATENT-CLASS-285-314 ..... C 15 N71-24903 *
US-PATENT-CLASS-285-316 ..... C 15 N72-25450 *
US-PATENT-CLASS-285-316 ..... C 33 N73-29958 *
US-PATENT-CLASS-285-317 ..... C 19 N71-24903 *
US-PATENT-CLASS-285-31 ..... C 19 N87-27713 *
US-PATENT-CLASS-285-326 ..... C 37 N79-11402 *
US-PATENT-CLASS-285-331 ..... C 15 N70-41629 *
US-PATENT-CLASS-285-33 ..... C 15 N72-25450 *
US-PATENT-CLASS-285-345 ..... C 15 N72-20446 *
US-PATENT-CLASS-285-351 ..... C 37 N89-13798 *
US-PATENT-CLASS-285-358 ..... C 37 N79-11402 *
US-PATENT-CLASS-285-373 ..... C 19 N87-27713 *
US-PATENT-CLASS-285-37 ..... C 37 N82-24490 *
US-PATENT-CLASS-285-38 ..... C 15 N71-24903 *
US-PATENT-CLASS-285-39 ..... C 37 N89-13798 *
US-PATENT-CLASS-285-3 ..... C 15 N89-27490 * P
US-PATENT-CLASS-285-3 ..... C 15 N72-25450 *
US-PATENT-CLASS-285-401 ..... C 37 N82-24494 *
US-PATENT-CLASS-285-406 ..... C 15 N71-24903 *
US-PATENT-CLASS-285-410 ..... C 05 N73-11086 *
US-PATENT-CLASS-285-421 ..... C 19 N87-27713 *
US-PATENT-CLASS-285-45 ..... C 15 N71-26937 *
US-PATENT-CLASS-285-51 ..... C 37 N87-22977 *
US-PATENT-CLASS-285-65 ..... C 37 N87-22977 *
US-PATENT-CLASS-285-66 ..... C 19 N87-27713 *
US-PATENT-CLASS-285-69 ..... C 37 N82-24494 *
US-PATENT-CLASS-285-901 ..... C 35 N87-29884 *
US-PATENT-CLASS-285-91 ..... C 37 N87-22977 *
US-PATENT-CLASS-285-97 ..... C 37 N89-13798 *
US-PATENT-CLASS-287-110 ..... C 15 N70-41629 *
US-PATENT-CLASS-2[illegible]-189.395 C 15 N71-26312 *
US-PATENT-CLASS-2[illegible]-189.38 .. C 15 N71-10799 *
US-PATENT-CLASS-287-54A ..... C 11 N72-25287 *
US-PATENT-CLASS-287-60R ..... C 15 N73-12488 *
US-PATENT-CLASS-287-62 ..... C 31 N73-32748 *
US-PATENT-CLASS-29-DIG.1 ..... C 44 N81-14389 *
US-PATENT-CLASS-29-DIG.24 ... C 24 N75-33181 *
US-PATENT-CLASS-29-DIG.35 ... C 37 N77-23482 *
US-PATENT-CLASS-29-DIG.39 ... C 24 N75-33181 *
US-PATENT-CLASS-29-125 ..... C 37 N79-10422 *
US-PATENT-CLASS-29-148.4A ... C 37 N74-15[illegible] *
US-PATENT-CLASS-29-148.4B ... C 37 N74-15128 *
US-PATENT-CLASS-29-148.4 ..... C 15 N71-10052 *
US-PATENT-CLASS-29-148.4 ..... C 15 N71-17999 *
US-PATENT-CLASS-29-150.5S ... C 15 N71-10998 *
US-PATENT-CLASS-29-156.5-R ... C 24 N87-27742 * P
US-PATENT-CLASS-29-156.8R ... C 37 N78-24544 *
US-PATENT-CLASS-29-157.3H ... C 34 N83-10598 *
US-PATENT-CLASS-29-157.3R ... C 34 N76-10552 *
US-PATENT-CLASS-29-157.3 ..... C 29 N70-41019 *
US-PATENT-CLASS-29-157 ..... C 29 N71-10659 *
US-PATENT-CLASS-29-162.1 ..... C 19 N71-23710 *
US-PATENT-CLASS-29-162.2 ..... C 17 N71-23046 *
US-PATENT-CLASS-29-162.2 ..... C 37 N75-26371 *
US-PATENT-CLASS-29-162.5 ..... C 17 N72-26538 *
US-PATENT-CLASS-29-162.5 ..... C 37 N75-26371 *
US-PATENT-CLASS-29-162.5 ..... C 27 N78-15311 *
US-PATENT-CLASS-29-162.5 ..... C 27 N77-13217 *
US-PATENT-CLASS-29-162 ..... C 37 N74-13179 *
US-PATENT-CLASS-29-162 ..... C 34 N78-27515 *
US-PATENT-CLASS-29-163.5 ..... C 17 N70-38480 *
US-PATENT-CLASS-29-163 ..... C 34 N76-27515 *
US-PATENT-CLASS-29-194 ..... C 26 N75-19439 *
US-PATENT-CLASS-29-194 ..... C 44 N79-14505 *
US-PATENT-CLASS-29-195A ..... C 27 N78-16229 *
US-PATENT-CLASS-29-195Y ..... C 14 N73-32320 *
US-PATENT-CLASS-29-195 ..... C 44 N79-14505 *
US-PATENT-CLASS-29-196.2 ..... C 17 N73-32414 *
US-PATENT-CLASS-29-196.2 ..... C 26 N75-19439 *
US-PATENT-CLASS-29-196.6 ..... C 17 N73-32414 *
US-PATENT-CLASS-29-196.6 ..... C 26 N75-19439 *
US-PATENT-CLASS-29-197 ..... C 17 N73-32414 *
US-PATENT-CLASS-29-197 ..... C 37 N75-13281 *
US-PATENT-CLASS-29-197 ..... C 26 N75-19439 *
US-PATENT-CLASS-29-197 ..... C 44 N79-14505 *
US-PATENT-CLASS-29-198 ..... C 17 N73-33288 *
US-PATENT-CLASS-29-199 ..... C 09 N72-25259 *
US-PATENT-CLASS-29-203H ..... C 37 N74-32918 *
US-PATENT-CLASS-29-203MW ... C 33 N74-29977 *
US-PATENT-CLASS-29-203V ..... C 15 N73-14488 *
US-PATENT-CLASS-29-23.5 ..... C 37 N78-24544 *
US-PATENT-CLASS-29-234 ..... C 15 N70-38901 *
US-PATENT-CLASS-29-244 ..... C 37 N78-24544 *
US-PATENT-CLASS-29-25.14 ..... C 05 N72-25121 *
US-PATENT-CLASS-29-25.14 ..... C 35 N82-24471 *
US-PATENT-CLASS-29-25.18 ..... C 09 N71-26678 *
US-PATENT-CLASS-29-25.18 ..... C 05 N72-25121 *
US-PATENT-CLASS-29-25.18 ..... C 20 N75-18310 *
US-PATENT-CLASS-29-25.18 ..... C 20 N78-21270 *
US-PATENT-CLASS-29-25.35 ..... C 35 N80-20559 *
US-PATENT-CLASS-29-25.42 ..... C 29 N72-29762 *
US-PATENT-CLASS-29-252 ..... C 37 N78-24544 *
US-PATENT-CLASS-29-25A ..... C 37 N75-33395 *
US-PATENT-CLASS-29-267 ..... C 60 N82-24839 *
US-PATENT-CLASS-29-268 ..... C 37 N74-32918 *
US-PATENT-CLASS-29-271 ..... C 15 N70-41371 *
US-PATENT-CLASS-29-279R .... C 15 N71-29133 *
US-PATENT-CLASS-29-400 ..... C 05 N71-12345 *
US-PATENT-CLASS-29-402.18 ... C 37 N86-32736 * P
US-PATENT-CLASS-29-412 ..... C 15 N72-20444 *
US-PATENT-CLASS-29-419 ..... C 24 N75-29133 *
US-PATENT-CLASS-29-420.5 .... C 26 N74-10521 *
US-PATENT-CLASS-29-420.5 .... C 37 N74-13179 *
US-PATENT-CLASS-29-420.5 .... C 37 N75-26371 *
US-PATENT-CLASS-29-420 ..... C 24 N75-13032 *
US-PATENT-CLASS-29-421E ..... C 37 N79-13064 *
US-PATENT-CLASS-29-421 ..... C 19 N71-29010 *
US-PATENT-CLASS-29-421 ..... C 14 N72-22439 *
US-PATENT-CLASS-29-421 ..... C 37 N76-14491 *
US-PATENT-CLASS-29-423 ..... C 15 N70-36409 *
US-PATENT-CLASS-29-423 ..... C 31 N74-21039 *
US-PATENT-CLASS-29-423 ..... C 52 N84-26389 *
US-PATENT-CLASS-29-426 ..... C 19 N72-29444 *
US-PATENT-CLASS-29-428 ..... C 15 N71-17988 *
US-PATENT-CLASS-29-432 ..... C 37 N76-19437 *
US-PATENT-CLASS-29-433 ..... C 37 N76-19437 *
US-PATENT-CLASS-29-446 ..... C 37 N80-26492 *
US-PATENT-CLASS-29-447 ..... C 37 N77-23482 *
US-PATENT-CLASS-29-451 ..... C 52 N84-26389 *
US-PATENT-CLASS-29-452 ..... C 15 N73-30457 *
US-PATENT-CLASS-29-458 ..... C 26 N83-10170 *
US-PATENT-CLASS-29-460 ..... C 37 N74-11301 *
US-PATENT-CLASS-29-460 ..... C 37 N75-13281 *
US-PATENT-CLASS-29-463 ..... C 07 N79-33101 *
US-PATENT-CLASS-29-467 ..... C 39 N79-31562 *
US-PATENT-CLASS-29-470.1 ..... C 37 N74-21037 *
US-PATENT-CLASS-29-470.1 ..... C 37 N75-12026 *
US-PATENT-CLASS-29-472.7 ..... C 37 N75-15962 *
US-PATENT-CLASS-29-472.9 ..... C 15 N89-39796 * P
US-PATENT-CLASS-29-472.9 ..... C 26 N71-19037 *
US-PATENT-CLASS-29-472.9 ..... C 15 N72-22462 *
US-PATENT-CLASS-29-473.1 ..... C 19 N72-22467 *
US-PATENT-CLASS-29-473.1 ..... C 15 N72-22462 *
US-PATENT-CLASS-29-473.1 ..... C 37 N75-15962 *
US-PATENT-CLASS-29-473 ..... C 37 N75-12026 *
US-PATENT-CLASS-29-482 ..... C 05 N72-25121 *
US-PATENT-CLASS-29-482 ..... C 37 N74-18128 *
US-PATENT-CLASS-29-487 ..... C 15 N73-33383 *
US-PATENT-CLASS-29-487 ..... C 37 N74-21035 *
US-PATENT-CLASS-29-488 ..... C 15 N70-33811 *
US-PATENT-CLASS-29-488 ..... C 37 N74-18128 *
US-PATENT-CLASS-29-492 ..... C 15 N71-25443 *
US-PATENT-CLASS-29-492 ..... C 09 N72-25261 *
US-PATENT-CLASS-29-494 ..... C 15 N73-33383 *
US-PATENT-CLASS-29-494 ..... C 37 N74-21035 *
US-PATENT-CLASS-29-494 ..... C 37 N75-13281 *
US-PATENT-CLASS-29-495 ..... C 15 N71-21078 *
US-PATENT-CLASS-29-497.5 ..... C 15 N73-28515 *
US-PATENT-CLASS-29-497.5 ..... C 15 N73-33383 *
US-PATENT-CLASS-29-497.5 ..... C 37 N74-11300 *
US-PATENT-CLASS-29-497.5 ..... C 37 N75-13281 *
US-PATENT-CLASS-29-497 ..... C 09 N72-25261 *
US-PATENT-CLASS-29-497 ..... C 15 N73-32358 *
US-PATENT-CLASS-29-497 ..... C 37 N74-18128 *
US-PATENT-CLASS-29-499 ..... C 09 N72-25261 *
US-PATENT-CLASS-29-499 ..... C 15 N73-33383 *
US-PATENT-CLASS-29-499 ..... C 37 N74-11301 *
US-PATENT-CLASS-29-499 ..... C 37 N74-18128 *
US-PATENT-CLASS-29-499 ..... C 37 N74-21035 *
US-PATENT-CLASS-29-502 ..... C 09 N72-25261 *
US-PATENT-CLASS-29-502 ..... C 37 N74-11301 *
US-PATENT-CLASS-29-504 ..... C 37 N74-21035 *
US-PATENT-CLASS-29-504 ..... C 37 N75-13281 *
US-PATENT-CLASS-29-517 ..... C 15 N71-17850 *
US-PATENT-CLASS-29-521 ..... C 26 N83-10170 *
US-PATENT-CLASS-29-526 ..... C 37 N76-19437 *
US-PATENT-CLASS-29-526 ..... C 39 N76-31562 *
US-PATENT-CLASS-29-527.2 ..... C 15 N72-25444 *
US-PATENT-CLASS-29-527.2 ..... C 15 N73-33380 *
US-PATENT-CLASS-29-527.2 ..... C 37 N74-11301 *
US-PATENT-CLASS-29-527.2 ..... C 24 N75-33181 *
US-PATENT-CLASS-29-527.2 ..... C 24 N77-19171 *
US-PATENT-CLASS-29-57.4 ..... C 44 N79-24431 *
US-PATENT-CLASS-29-570 ..... C 26 N72-29781 *
US-PATENT-CLASS-29-571 ..... C 35 N75-13213 *
US-PATENT-CLASS-29-571 ..... C 35 N76-27329 *
US-PATENT-CLASS-29-571 ..... C 33 N81-26390 *
US-PATENT-CLASS-29-572 ..... C 09 N71-21627 *
US-PATENT-CLASS-29-572 ..... C 09 N71-24691 *
US-PATENT-CLASS-29-572 ..... C 09 N72-22041 *
US-PATENT-CLASS-29-572 ..... C 44 N74-14784 *
US-PATENT-CLASS-29-572 ..... C 44 N76-14650 *
US-PATENT-CLASS-29-572 ..... C 44 N76-28635 *
US-PATENT-CLASS-29-572 ..... C 44 N77-10835 *
US-PATENT-CLASS-29-572 ..... C 44 N78-24859 *
US-PATENT-CLASS-29-572 ..... C 44 N78-25527 *
US-PATENT-CLASS-29-572 ..... C 44 N78-25529 *
US-PATENT-CLASS-29-572 ..... C 44 N78-31489 *

US-PATENT-CLASS-29-572 ..... c 44 N79-11472 *
US-PATENT-CLASS-29-572 ..... c 44 N79-17314 *
US-PATENT-CLASS-29-572 ..... c 44 N79-18444 *
US-PATENT-CLASS-29-572 ..... c 44 N79-24431 *
US-PATENT-CLASS-29-572 ..... c 44 N79-26475 *
US-PATENT-CLASS-29-572 ..... c 44 N79-31752 *
US-PATENT-CLASS-29-572 ..... c 44 N80-14474 *
US-PATENT-CLASS-29-572 ..... c 44 N82-28780 *
US-PATENT-CLASS-29-572 ..... c 44 N82-29709 *
US-PATENT-CLASS-29-572 ..... c 44 N83-13579 *
US-PATENT-CLASS-29-572 ..... c 76 N86-20150 *
US-PATENT-CLASS-29-572 ..... c 44 N86-32875 *
US-PATENT-CLASS-29-573 ..... c 14 N73-13417 *
US-PATENT-CLASS-29-575 ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576-E ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576-J ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576-W ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576B ..... c 44 N86-32875 *
US-PATENT-CLASS-29-576E ..... c 76 N85-30922 *
US-PATENT-CLASS-29-576J ..... c 35 N82-31659 *
US-PATENT-CLASS-29-576J ..... c 76 N85-30922 *
US-PATENT-CLASS-29-576S ..... c 35 N82-31659 *
US-PATENT-CLASS-29-576W ..... c 76 N85-30922 *
US-PATENT-CLASS-29-577 ..... c 44 N79-26475 *
US-PATENT-CLASS-29-578 ..... c 26 N72-17820 *
US-PATENT-CLASS-29-578 ..... c 33 N78-27326 *
US-PATENT-CLASS-29-578 ..... c 44 N79-18444 *
US-PATENT-CLASS-29-578 ..... c 44 N79-26475 *
US-PATENT-CLASS-29-578 ..... c 33 N81-26360 *
US-PATENT-CLASS-29-578 ..... c 76 N85-30922 *
US-PATENT-CLASS-29-578 ..... c 76 N87-15882 *
US-PATENT-CLASS-29-580 ..... c 09 N73-27150 * #
US-PATENT-CLASS-29-580 ..... c 44 N79-26475 *
US-PATENT-CLASS-29-580 ..... c 33 N81-26360 *
US-PATENT-CLASS-29-580 ..... c 35 N87-14671 *
US-PATENT-CLASS-29-588 ..... c 14 N71-27334 *
US-PATENT-CLASS-29-588 ..... c 14 N72-31446 *
US-PATENT-CLASS-29-588 ..... c 44 N74-14784 *
US-PATENT-CLASS-29-588 ..... c 44 N80-14474 *
US-PATENT-CLASS-29-589 ..... c 26 N72-17820 *
US-PATENT-CLASS-29-589 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-589 ..... c 15 N73-14469 *
US-PATENT-CLASS-29-589 ..... c 44 N79-31752 *
US-PATENT-CLASS-29-590 ..... c 09 N72-22199 *
US-PATENT-CLASS-29-591 ..... c 15 N73-14469 *
US-PATENT-CLASS-29-591 ..... c 44 N79-18444 *
US-PATENT-CLASS-29-591 ..... c 35 N87-14671 *
US-PATENT-CLASS-29-592 ..... c 35 N75-13213 *
US-PATENT-CLASS-29-597 ..... c 33 N77-26385 *
US-PATENT-CLASS-29-599 ..... c 15 N72-25447 *
US-PATENT-CLASS-29-599 ..... c 26 N73-26752 *
US-PATENT-CLASS-29-599 ..... c 26 N73-32571 *
US-PATENT-CLASS-29-603 ..... c 08 N71-27210 *
US-PATENT-CLASS-29-604 ..... c 24 N75-13032 *
US-PATENT-CLASS-29-610SG ..... c 35 N85-21586 *
US-PATENT-CLASS-29-610 ..... c 24 N75-30260 *
US-PATENT-CLASS-29-613 ..... c 24 N75-30260 *
US-PATENT-CLASS-29-613 ..... c 35 N82-24470 *
US-PATENT-CLASS-29-620 ..... c 35 N82-31659 *
US-PATENT-CLASS-29-622 ..... c 33 N77-26385 *
US-PATENT-CLASS-29-623.5 ..... c 44 N83-32176 *
US-PATENT-CLASS-29-623.5 ..... c 26 N84-22734 *
US-PATENT-CLASS-29-623.5 ..... c 44 N84-28205 *
US-PATENT-CLASS-29-624 ..... c 15 N72-20444 *
US-PATENT-CLASS-29-624 ..... c 14 N73-13417 *
US-PATENT-CLASS-29-627 ..... c 44 N80-14474 *
US-PATENT-CLASS-29-628 ..... c 15 N72-22491 *
US-PATENT-CLASS-29-628 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-628 ..... c 09 N73-28083 *
US-PATENT-CLASS-29-628 ..... c 33 N77-26385 *
US-PATENT-CLASS-29-628 ..... c 44 N78-25528 *
US-PATENT-CLASS-29-629 ..... c 09 N73-28083 *
US-PATENT-CLASS-29-630A ..... c 05 N72-25121 *
US-PATENT-CLASS-29-630A ..... c 09 N73-28083 *
US-PATENT-CLASS-29-630E ..... c 33 N77-26385 *
US-PATENT-CLASS-29-630 ..... c 09 N73-28083 *
US-PATENT-CLASS-29-739 ..... c 44 N79-24431 *
US-PATENT-CLASS-29-764 ..... c 60 N82-24839 *
US-PATENT-CLASS-29-809 ..... c 44 N79-24431 *
US-PATENT-CLASS-29-81C ..... c 75 N78-27913 *
US-PATENT-CLASS-29-81D ..... c 37 N76-18454 *
US-PATENT-CLASS-29-825 ..... c 44 N84-28205 *
US-PATENT-CLASS-29-832 ..... c 44 N81-14389 *
US-PATENT-CLASS-29-888.046 .. c 37 N90-22042 *
US-PATENT-CLASS-290-1-R ..... c 33 N87-23904 *
US-PATENT-CLASS-290-1R ..... c 44 N85-21769 *
US-PATENT-CLASS-290-4R ..... c 44 N85-21769 *
US-PATENT-CLASS-290-40 ..... c 03 N71-11057 *
US-PATENT-CLASS-290-44 ..... c 37 N90-23742 *
US-PATENT-CLASS-290-52 ..... c 37 N77-32500 *
US-PATENT-CLASS-290-52 ..... c 37 N77-32501 *
US-PATENT-CLASS-290-53 ..... c 44 N80-29834 *
US-PATENT-CLASS-290-55 ..... c 44 N84-23018 *
US-PATENT-CLASS-290-55 ..... c 37 N90-23742 *
US-PATENT-CLASS-292-DIG.14 . c 37 N75-19685 *
US-PATENT-CLASS-292-DIG.49 . c 37 N87-25582 *
US-PATENT-CLASS-292-108 ..... c 37 N75-19685 *
US-PATENT-CLASS-292-110 ..... c 37 N77-32499 *
US-PATENT-CLASS-292-122 ..... c 37 N75-19685 *
US-PATENT-CLASS-292-201 ..... c 37 N87-25582 *
US-PATENT-CLASS-292-252 ..... c 37 N85-21649 *
US-PATENT-CLASS-292-27 ..... c 37 N90-17154 *
US-PATENT-CLASS-292-34 ..... c 37 N90-17154 *
US-PATENT-CLASS-292-64 ..... c 37 N87-25582 *
US-PATENT-CLASS-294-1R ..... c 35 N76-16392 *
US-PATENT-CLASS-294-106 ..... c 37 N81-14320 *
US-PATENT-CLASS-294-106 ..... c 37 N88-23979 *
US-PATENT-CLASS-294-106 ..... c 37 N90-20408 *
US-PATENT-CLASS-294-113 ..... c 37 N80-14398 *
US-PATENT-CLASS-294-113 ..... c 37 N88-23979 *
US-PATENT-CLASS-294-116 ..... c 37 N75-33395 *
US-PATENT-CLASS-294-116 ..... c 37 N82-32731 *
US-PATENT-CLASS-294-119.2 ... c 37 N88-23979 *
US-PATENT-CLASS-294-15 ..... c 15 N71-29133 *
US-PATENT-CLASS-294-16 ..... c 37 N88-23979 *
US-PATENT-CLASS-294-19R ..... c 35 N76-16392 *
US-PATENT-CLASS-294-83 ..... c 15 N71-24897 *
US-PATENT-CLASS-294-86.33 ... c 37 N75-33395 *
US-PATENT-CLASS-294-86.4 ..... c 37 N90-20408 *
US-PATENT-CLASS-294-86R ..... c 37 N80-14398 *
US-PATENT-CLASS-294-86R ..... c 37 N81-27519 *
US-PATENT-CLASS-294-86R ..... c 18 N83-29303 *
US-PATENT-CLASS-294-88 ..... c 37 N89-13785 *
US-PATENT-CLASS-294-93 ..... c 54 N81-26718 *
US-PATENT-CLASS-296-1S ..... c 85 N82-33288 *
US-PATENT-CLASS-296-1S ..... c 02 N88-14071 *
US-PATENT-CLASS-296-100 ..... c 37 N87-17036 *
US-PATENT-CLASS-296-20 ..... c 85 N87-21755 *
US-PATENT-CLASS-296-24C ..... c 85 N82-33288 *
US-PATENT-CLASS-296-91 ..... c 85 N82-33288 *
US-PATENT-CLASS-297-DIG.5 .... c 03 N84-33394 *
US-PATENT-CLASS-297-216 ..... c 05 N70-35152 *
US-PATENT-CLASS-297-216 ..... c 37 N88-23982 *
US-PATENT-CLASS-297-232 ..... c 05 N72-11085 *
US-PATENT-CLASS-297-385 ..... c 05 N71-12341 *
US-PATENT-CLASS-297-385 ..... c 05 N75-25915 *
US-PATENT-CLASS-297-386 ..... c 15 N73-30460 *
US-PATENT-CLASS-297-386 ..... c 05 N75-25915 *
US-PATENT-CLASS-297-389 ..... c 05 N75-25915 *
US-PATENT-CLASS-297-68 ..... c 05 N71-12343 *
US-PATENT-CLASS-297-68 ..... c 05 N72-11085 *
US-PATENT-CLASS-299-13 ..... c 43 N81-26509 *
US-PATENT-CLASS-299-17 ..... c 43 N81-26509 *
US-PATENT-CLASS-299-1 ..... c 43 N79-26439 *
US-PATENT-CLASS-299-1 ..... c 35 N84-33768 *
US-PATENT-CLASS-299-20 ..... c 43 N81-26509 *
US-PATENT-CLASS-299-67 ..... c 46 N74-23068 *
US-PATENT-CLASS-299-86 ..... c 46 N74-23069 *
US-PATENT-CLASS-3-1.1 ..... c 05 N73-32013 *
US-PATENT-CLASS-3-1.1 ..... c 52 N77-14738 *
US-PATENT-CLASS-3-1.1 ..... c 54 N79-24652 *
US-PATENT-CLASS-3-1.1 ..... c 74 N84-11921 *
US-PATENT-CLASS-3-1.2 ..... c 52 N77-14735 *
US-PATENT-CLASS-3-1.2 ..... c 52 N78-10686 *
US-PATENT-CLASS-3-1.9 ..... c 27 N78-17215 *
US-PATENT-CLASS-3-1.9 ..... c 52 N79-26772 *
US-PATENT-CLASS-3-12.5 ..... c 54 N78-17676 *
US-PATENT-CLASS-3-12.5 ..... c 54 N79-24652 *
US-PATENT-CLASS-3-12 ..... c 05 N73-32013 *
US-PATENT-CLASS-3-12 ..... c 52 N79-26772 *
US-PATENT-CLASS-3-14 ..... c 52 N77-14735 *
US-PATENT-CLASS-3-15 ..... c 52 N78-10686 *
US-PATENT-CLASS-3-1 ..... c 52 N77-25772 *
US-PATENT-CLASS-3-21 ..... c 54 N77-30749 *
US-PATENT-CLASS-3-29 ..... c 52 N78-10686 *
US-PATENT-CLASS-3-2 ..... c 05 N73-32013 *
US-PATENT-CLASS-3-2 ..... c 54 N77-30749 *
US-PATENT-CLASS-3-2 ..... c 52 N79-26772 *
US-PATENT-CLASS-3-6 ..... c 05 N73-32013 *
US-PATENT-CLASS-30-102 ..... c 37 N82-26672 *
US-PATENT-CLASS-30-180 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-188 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-228 ..... c 15 N70-42017 *
US-PATENT-CLASS-30-228 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-249 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-272R ..... c 37 N84-28085 *
US-PATENT-CLASS-30-90.6 ..... c 37 N79-10419 *
US-PATENT-CLASS-301-5P ..... c 37 N74-18125 *
US-PATENT-CLASS-301-82 ..... c 33 N79-10339 *
US-PATENT-CLASS-302-66 ..... c 25 N79-11152 *
US-PATENT-CLASS-303-92 ..... c 44 N79-14527 *
US-PATENT-CLASS-305-35EB .... c 11 N73-26238 *
US-PATENT-CLASS-305-36 ..... c 37 N87-17034 *
US-PATENT-CLASS-305-39 ..... c 11 N73-26238 *
US-PATENT-CLASS-305-51 ..... c 37 N87-17034 *
US-PATENT-CLASS-305-58PC .... c 37 N87-17034 *
US-PATENT-CLASS-305-58R ..... c 37 N87-17034 *
US-PATENT-CLASS-307-103 ..... c 09 N72-25262 *
US-PATENT-CLASS-307-104 ..... c 09 N71-24892 *
US-PATENT-CLASS-307-106 ..... c 09 N69-21468 * #
US-PATENT-CLASS-307-106 ..... c 33 N88-24862 *
US-PATENT-CLASS-307-118 ..... c 09 N72-27227 *
US-PATENT-CLASS-307-119 ..... c 33 N79-28415 *
US-PATENT-CLASS-307-126 ..... c 14 N71-27407 *
US-PATENT-CLASS-307-127 ..... c 33 N74-14956 *
US-PATENT-CLASS-307-131 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-136 ..... c 09 N69-27500 * #
US-PATENT-CLASS-307-141.8 .... c 03 N72-25020 *
US-PATENT-CLASS-307-149 ..... c 09 N71-13488 *
US-PATENT-CLASS-307-149 ..... c 54 N75-12616 *
US-PATENT-CLASS-307-151 ..... c 32 N78-24391 *
US-PATENT-CLASS-307-157 ..... c 16 N73-32391 *
US-PATENT-CLASS-307-18 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-18 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-204 ..... c 35 N75-30504 *
US-PATENT-CLASS-307-205 ..... c 33 N75-14957 *
US-PATENT-CLASS-307-206 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-207 ..... c 08 N71-29034 *
US-PATENT-CLASS-307-207 ..... c 09 N73-13209 *
US-PATENT-CLASS-307-208 ..... c 33 N75-14957 *
US-PATENT-CLASS-307-211 ..... c 35 N75-30504 *
US-PATENT-CLASS-307-215 ..... c 10 N71-28660 *
US-PATENT-CLASS-307-215 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-215 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-215 ..... c 09 N73-13209 *
US-PATENT-CLASS-307-215 ..... c 33 N74-22814 *
US-PATENT-CLASS-307-216 ..... c 08 N71-18751 *
US-PATENT-CLASS-307-219 ..... c 35 N75-30504 *
US-PATENT-CLASS-307-219 ..... c 60 N81-15706 *
US-PATENT-CLASS-307-220 ..... c 10 N73-26229 *
US-PATENT-CLASS-307-221R .... c 10 N73-20254 *
US-PATENT-CLASS-307-221R .... c 33 N76-14373 *
US-PATENT-CLASS-307-222 ..... c 09 N69-27463 * #
US-PATENT-CLASS-307-222 ..... c 08 N71-29034 *
US-PATENT-CLASS-307-223B .... c 09 N72-22201 *
US-PATENT-CLASS-307-223 ..... c 09 N72-17157 *
US-PATENT-CLASS-307-225R .... c 33 N74-10223 *
US-PATENT-CLASS-307-225R .... c 33 N75-31330 *
US-PATENT-CLASS-307-225R .... c 33 N77-24375 *
US-PATENT-CLASS-307-225R .... c 60 N81-15706 *
US-PATENT-CLASS-307-227 ..... c 09 N72-17157 *
US-PATENT-CLASS-307-227 ..... c 33 N75-19522 *
US-PATENT-CLASS-307-229 ..... c 09 N71-12520 *
US-PATENT-CLASS-307-229 ..... c 09 N72-23173 *
US-PATENT-CLASS-307-229 ..... c 33 N75-18479 *
US-PATENT-CLASS-307-229 ..... c 33 N77-17354 *
US-PATENT-CLASS-307-229 ..... c 33 N78-32339 *
US-PATENT-CLASS-307-230 ..... c 10 N72-16172 *
US-PATENT-CLASS-307-230 ..... c 09 N72-21245 *
US-PATENT-CLASS-307-230 ..... c 09 N73-20232 *
US-PATENT-CLASS-307-230 ..... c 33 N74-32712 *
US-PATENT-CLASS-307-230 ..... c 33 N77-17354 *
US-PATENT-CLASS-307-230 ..... c 33 N78-32339 *
US-PATENT-CLASS-307-231 ..... c 09 N72-22202 *
US-PATENT-CLASS-307-232 ..... c 33 N77-21314 *
US-PATENT-CLASS-307-232 ..... c 33 N79-11313 *
US-PATENT-CLASS-307-233R .... c 32 N79-10262 *
US-PATENT-CLASS-307-233R .... c 33 N81-17348 *
US-PATENT-CLASS-307-233 ..... c 09 N72-25257 *
US-PATENT-CLASS-307-233 ..... c 10 N73-26229 *
US-PATENT-CLASS-307-233 ..... c 33 N77-13315 *
US-PATENT-CLASS-307-234 ..... c 10 N71-23315 *
US-PATENT-CLASS-307-234 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-234 ..... c 08 N71-29138 *
US-PATENT-CLASS-307-235R .... c 33 N75-18479 *
US-PATENT-CLASS-307-235 ..... c 10 N71-19471 *
US-PATENT-CLASS-307-235 ..... c 09 N71-23545 *
US-PATENT-CLASS-307-235 ..... c 10 N71-24862 *
US-PATENT-CLASS-307-237 ..... c 09 N72-22200 *
US-PATENT-CLASS-307-237 ..... c 32 N74-19786 *
US-PATENT-CLASS-307-238 ..... c 33 N75-31331 *
US-PATENT-CLASS-307-238 ..... c 33 N77-21314 *
US-PATENT-CLASS-307-241 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-242 ..... c 10 N73-13235 *
US-PATENT-CLASS-307-243 ..... c 09 N71-12516 *
US-PATENT-CLASS-307-243 ..... c 08 N72-22162 *
US-PATENT-CLASS-307-243 ..... c 33 N74-22814 *
US-PATENT-CLASS-307-246 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-247 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-247 ..... c 09 N72-22202 *
US-PATENT-CLASS-307-251 ..... c 09 N71-33109 *
US-PATENT-CLASS-307-251 ..... c 08 N72-22162 *
US-PATENT-CLASS-307-252F .... c 09 N72-17153 *
US-PATENT-CLASS-307-252J .... c 09 N72-17153 *
US-PATENT-CLASS-307-252J .... c 09 N72-22201 *
US-PATENT-CLASS-307-252K .... c 09 N72-22201 *
US-PATENT-CLASS-307-252L .... c 33 N74-27682 *
US-PATENT-CLASS-307-252N .... c 09 N72-23171 *
US-PATENT-CLASS-307-252Q .... c 33 N74-27682 *
US-PATENT-CLASS-307-252R .... c 09 N72-23171 *
US-PATENT-CLASS-307-252UA .. c 33 N81-27395 *
US-PATENT-CLASS-307-252 ..... c 10 N69-39686 * #
US-PATENT-CLASS-307-252 ..... c 09 N71-12514 *
US-PATENT-CLASS-307-253 ..... c 10 N71-27126 *
US-PATENT-CLASS-307-254 ..... c 10 N71-24799 *
US-PATENT-CLASS-307-254 ..... c 09 N72-22200 *
US-PATENT-CLASS-307-257 ..... c 09 N72-21247 *
US-PATENT-CLASS-307-259 ..... c 09 N72-21247 *

US-PATENT-CLASS-307-259 ..... c 09 N72-23171 *
US-PATENT-CLASS-307-259 ..... c 10 N73-13235 *
US-PATENT-CLASS-307-260 ..... c 09 N71-23311 *
US-PATENT-CLASS-307-260 ..... c 05 N71-23317 *
US-PATENT-CLASS-307-260 ..... c 33 N75-19515 *
US-PATENT-CLASS-307-261 ..... c 09 N71-33109 *
US-PATENT-CLASS-307-261 ..... c 09 N72-25251 *
US-PATENT-CLASS-307-261 ..... c 33 N87-21235 *
US-PATENT-CLASS-307-262 ..... c 10 N72-16172 *
US-PATENT-CLASS-307-262 ..... c 09 N72-22197 *
US-PATENT-CLASS-307-262 ..... c 09 N72-33204 *
US-PATENT-CLASS-307-263 ..... c 09 N71-23270 *
US-PATENT-CLASS-307-263 ..... c 09 N71-28926 *
US-PATENT-CLASS-307-264 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-265 ..... c 09 N69-39987 * #
US-PATENT-CLASS-307-265 ..... c 10 N71-23029 *
US-PATENT-CLASS-307-265 ..... c 09 N71-28466 *
US-PATENT-CLASS-307-265 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-265 ..... c 08 N71-29138 *
US-PATENT-CLASS-307-265 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-265 ..... c 33 N78-18308 *
US-PATENT-CLASS-307-267 ..... c 09 N71-20447 *
US-PATENT-CLASS-307-267 ..... c 33 N74-32711 *
US-PATENT-CLASS-307-267 ..... c 33 N75-18479 *
US-PATENT-CLASS-307-268 ..... c 09 N69-24317 * #
US-PATENT-CLASS-307-269 ..... c 60 N81-15706 *
US-PATENT-CLASS-307-270 ..... c 33 N78-17294 *
US-PATENT-CLASS-307-270 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-271 ..... c 10 N73-32145 *
US-PATENT-CLASS-307-271 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-273 ..... c 10 N71-18723 *
US-PATENT-CLASS-307-273 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-273 ..... c 09 N71-28466 *
US-PATENT-CLASS-307-273 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-273 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-273 ..... c 10 N72-20221 *
US-PATENT-CLASS-307-280 ..... c 33 N77-21314 *
US-PATENT-CLASS-307-284 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-286 ..... c 09 N71-23015 *
US-PATENT-CLASS-307-288 ..... c 09 N71-28466 *
US-PATENT-CLASS-307-288 ..... c 10 N72-20221 *
US-PATENT-CLASS-307-288 ..... c 09 N72-22202 *
US-PATENT-CLASS-307-289 ..... c 10 N71-19547 *
US-PATENT-CLASS-307-28 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-290 ..... c 33 N74-22814 *
US-PATENT-CLASS-307-291 ..... c 60 N81-15706 *
US-PATENT-CLASS-307-294 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-295 ..... c 10 N72-17171 *
US-PATENT-CLASS-307-295 ..... c 10 N72-20223 *
US-PATENT-CLASS-307-295 ..... c 09 N72-21245 *
US-PATENT-CLASS-307-295 ..... c 09 N72-33204 *
US-PATENT-CLASS-307-295 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-295 ..... c 33 N77-13315 *
US-PATENT-CLASS-307-296 ..... c 08 N71-12494 *
US-PATENT-CLASS-307-296 ..... c 07 N71-28430 *
US-PATENT-CLASS-307-297 ..... c 33 N78-17294 *
US-PATENT-CLASS-307-299 ..... c 08 N72-21198 *
US-PATENT-CLASS-307-299 ..... c 26 N72-21701 *
US-PATENT-CLASS-307-29 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-300 ..... c 10 N71-27126 *
US-PATENT-CLASS-307-303 ..... c 08 N72-21198 *
US-PATENT-CLASS-307-304 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-304 ..... c 09 N73-20232 *
US-PATENT-CLASS-307-304 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-305 ..... c 09 N72-23171 *
US-PATENT-CLASS-307-306 ..... c 33 N78-13320 *
US-PATENT-CLASS-307-306 ..... c 33 N81-17348 *
US-PATENT-CLASS-307-308 ..... c 14 N73-28488 *
US-PATENT-CLASS-307-309 ..... c 35 N75-13213 *
US-PATENT-CLASS-307-310 ..... c 09 N73-14214 *
US-PATENT-CLASS-307-311 ..... c 14 N72-18411 *
US-PATENT-CLASS-307-311 ..... c 08 N72-21198 *
US-PATENT-CLASS-307-311 ..... c 09 N73-14214 *
US-PATENT-CLASS-307-313 ..... c 10 N72-20221 *
US-PATENT-CLASS-307-317 ..... c 09 N72-22200 *
US-PATENT-CLASS-307-317 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-31 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-321 ..... c 33 N75-19520 *
US-PATENT-CLASS-307-321 ..... c 33 N75-25041 *
US-PATENT-CLASS-307-322 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-323 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-350 ..... c 33 N78-18308 *
US-PATENT-CLASS-307-352 ..... c 33 N81-27396 *
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US-PATENT-CLASS-307-354 ..... c 33 N87-21235 *
US-PATENT-CLASS-307-35 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-360 ..... c 33 N78-18308 *
US-PATENT-CLASS-307-38 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-415 ..... c 33 N82-24418 *
US-PATENT-CLASS-307-425 ..... c 36 N87-25567 *
US-PATENT-CLASS-307-490 ..... c 33 N87-22895 *
US-PATENT-CLASS-307-520 ..... c 33 N85-29145 *
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US-PATENT-CLASS-307-529 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-53 ..... c 10 N71-26626 *
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US-PATENT-CLASS-307-566 ..... c 33 N85-20672 *
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US-PATENT-CLASS-307-63 ..... c 44 N80-14472 *
US-PATENT-CLASS-307-64 ..... c 33 N77-30365 *
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US-PATENT-CLASS-307-66 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-69 ..... c 33 N78-17296 *
US-PATENT-CLASS-307-80 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-81 ..... c 09 N72-17157 *
US-PATENT-CLASS-307-82 ..... c 33 N79-24254 *
US-PATENT-CLASS-307-82 ..... c 33 N85-29147 *
US-PATENT-CLASS-307-83 ..... c 09 N72-25262 *
US-PATENT-CLASS-307-87 ..... c 33 N84-33680 *
US-PATENT-CLASS-307-88.3 ..... c 09 N72-25258 *
US-PATENT-CLASS-307-88.5 ..... c 09 N70-34819 *
US-PATENT-CLASS-307-88.5 ..... c 09 N70-40272 *
US-PATENT-CLASS-307-88.5 ..... c 09 N70-41675 *
US-PATENT-CLASS-307-88.5 ..... c 10 N70-42032 *
US-PATENT-CLASS-307-88.5 ..... c 09 N71-10673 *
US-PATENT-CLASS-307-88.5 ..... c 10 N71-15910 *
US-PATENT-CLASS-307-88.5 ..... c 10 N71-16042 *
US-PATENT-CLASS-307-88.5 ..... c 10 N71-28739 *
US-PATENT-CLASS-307-88MP ..... c 09 N72-22197 *
US-PATENT-CLASS-307-88 ..... c 08 N70-34743 *
US-PATENT-CLASS-307-88 ..... c 09 N70-38604 *
US-PATENT-CLASS-307-88 ..... c 09 N71-24803 *
US-PATENT-CLASS-307-88 ..... c 09 N71-26000 *
US-PATENT-CLASS-307-92 ..... c 09 N72-27227 *
US-PATENT-CLASS-307-98 ..... c 33 N79-28415 *
US-PATENT-CLASS-308-DIG.1 ..... c 15 N72-17451 *
US-PATENT-CLASS-308-DIG.1 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-DIG.8 ..... c 24 N79-17916 *
US-PATENT-CLASS-308-DIG.9 ..... c 24 N79-17916 *
US-PATENT-CLASS-308-10 ..... c 15 N71-22997 *
US-PATENT-CLASS-308-10 ..... c 15 N72-33476 *
US-PATENT-CLASS-308-10 ..... c 35 N74-18323 *
US-PATENT-CLASS-308-10 ..... c 37 N75-18574 *
US-PATENT-CLASS-308-10 ..... c 37 N76-18459 *
US-PATENT-CLASS-308-10 ..... c 37 N77-17464 *
US-PATENT-CLASS-308-10 ..... c 44 N78-24608 *
US-PATENT-CLASS-308-10 ..... c 37 N78-27424 *
US-PATENT-CLASS-308-10 ..... c 35 N79-26372 *
US-PATENT-CLASS-308-10 ..... c 71 N81-15767 *
US-PATENT-CLASS-308-10 ..... c 44 N83-28574 *
US-PATENT-CLASS-308-10 ..... c 37 N83-32067 *
US-PATENT-CLASS-308-10 ..... c 37 N83-34323 *
US-PATENT-CLASS-308-10 ..... c 71 N83-36846 *
US-PATENT-CLASS-308-10 ..... c 37 N85-20337 *
US-PATENT-CLASS-308-121 ..... c 37 N74-32921 *
US-PATENT-CLASS-308-121 ..... c 37 N75-30562 *
US-PATENT-CLASS-308-121 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-122 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-160 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-160 ..... c 37 N76-29588 *
US-PATENT-CLASS-308-160 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-163 ..... c 37 N76-29588 *
US-PATENT-CLASS-308-163 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-168 ..... c 24 N79-17916 *
US-PATENT-CLASS-308-170 ..... c 15 N71-28465 *
US-PATENT-CLASS-308-170 ..... c 37 N76-29588 *
US-PATENT-CLASS-308-171 ..... c 24 N79-17916 *
US-PATENT-CLASS-308-172 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-174 ..... c 54 N75-12616 *
US-PATENT-CLASS-308-176 ..... c 15 N71-22982 *
US-PATENT-CLASS-308-177 ..... c 15 N71-29136 *
US-PATENT-CLASS-308-187 ..... c 15 N71-26189 *
US-PATENT-CLASS-308-188 ..... c 15 N73-30458 *
US-PATENT-CLASS-308-188 ..... c 37 N74-21064 *
US-PATENT-CLASS-308-191 ..... c 37 N74-21064 *
US-PATENT-CLASS-308-191 ..... c 37 N75-31446 *
US-PATENT-CLASS-308-193 ..... c 15 N73-30458 *
US-PATENT-CLASS-308-194 ..... c 37 N79-11404 *
US-PATENT-CLASS-308-195 ..... c 15 N72-22490 *
US-PATENT-CLASS-308-195 ..... c 37 N75-31446 *
US-PATENT-CLASS-308-195 ..... c 37 N77-32500 *
US-PATENT-CLASS-308-195 ..... c 37 N77-32501 *
US-PATENT-CLASS-308-1 ..... c 31 N71-26537 *
US-PATENT-CLASS-308-2A ..... c 15 N72-26371 *
US-PATENT-CLASS-308-2A ..... c 15 N73-12488 *
US-PATENT-CLASS-308-2A ..... c 37 N84-12492 *
US-PATENT-CLASS-308-201 ..... c 37 N75-31446 *
US-PATENT-CLASS-308-2 ..... c 15 N71-23812 *
US-PATENT-CLASS-308-35 ..... c 15 N73-32359 *
US-PATENT-CLASS-308-5R ..... c 37 N77-28486 *
US-PATENT-CLASS-308-5R ..... c 37 N79-10418 *
US-PATENT-CLASS-308-5 ..... c 15 N71-10617 *
US-PATENT-CLASS-308-5 ..... c 15 N72-11388 *
US-PATENT-CLASS-308-5 ..... c 15 N72-17451 *
US-PATENT-CLASS-308-72 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-72 ..... c 37 N77-32500 *
US-PATENT-CLASS-308-72 ..... c 37 N79-11404 *
US-PATENT-CLASS-308-73 ..... c 37 N74-21061 *
US-PATENT-CLASS-308-73 ..... c 37 N75-30562 *
US-PATENT-CLASS-308-73 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-73 ..... c 37 N77-28486 *
US-PATENT-CLASS-308-78 ..... c 24 N79-17916 *
US-PATENT-CLASS-308-87R ..... c 24 N79-17916 *
US-PATENT-CLASS-308-9 ..... c 15 N70-34664 *
US-PATENT-CLASS-308-9 ..... c 15 N70-38620 *
US-PATENT-CLASS-308-9 ..... c 15 N70-39896 *
US-PATENT-CLASS-308-9 ..... c 15 N71-20739 *
US-PATENT-CLASS-308-9 ..... c 14 N71-26627 *
US-PATENT-CLASS-308-9 ..... c 15 N72-17451 *
US-PATENT-CLASS-308-9 ..... c 15 N73-32359 *
US-PATENT-CLASS-308-9 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-9 ..... c 37 N77-28486 *
US-PATENT-CLASS-308-9 ..... c 37 N79-10418 *
US-PATENT-CLASS-31-35 ..... c 31 N85-21404 *
US-PATENT-CLASS-310-101 ..... c 15 N71-24696 *
US-PATENT-CLASS-310-10 ..... c 03 N69-39890 * #
US-PATENT-CLASS-310-10 ..... c 09 N71-23443 *
US-PATENT-CLASS-310-10 ..... c 09 N71-24904 *
US-PATENT-CLASS-310-10 ..... c 09 N72-25255 *
US-PATENT-CLASS-310-10 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-111 ..... c 33 N77-26387 *
US-PATENT-CLASS-310-11 ..... c 25 N69-21699 * #
US-PATENT-CLASS-310-11 ..... c 03 N69-39983 * #
US-PATENT-CLASS-310-11 ..... c 03 N70-36803 *
US-PATENT-CLASS-310-11 ..... c 14 N72-22439 *
US-PATENT-CLASS-310-11 ..... c 12 N72-25292 *
US-PATENT-CLASS-310-11 ..... c 35 N74-21018 *
US-PATENT-CLASS-310-11 ..... c 36 N75-32441 *
US-PATENT-CLASS-310-11 ..... c 44 N83-28573 *
US-PATENT-CLASS-310-12 ..... c 33 N82-24421 *
US-PATENT-CLASS-310-12 ..... c 37 N83-32067 *
US-PATENT-CLASS-310-153 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-154 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-154 ..... c 35 N84-28017 *
US-PATENT-CLASS-310-15 ..... c 09 N72-25255 *
US-PATENT-CLASS-310-15 ..... c 44 N83-28574 *
US-PATENT-CLASS-310-15 ..... c 33 N87-23904 *
US-PATENT-CLASS-310-168 ..... c 09 N71-25999 *
US-PATENT-CLASS-310-168 ..... c 33 N77-26387 *
US-PATENT-CLASS-310-171 ..... c 35 N84-28017 *
US-PATENT-CLASS-310-178 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-20 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-22 ..... c 31 N85-21404 *
US-PATENT-CLASS-310-231 ..... c 33 N79-20314 *
US-PATENT-CLASS-310-254 ..... c 09 N71-25999 *
US-PATENT-CLASS-310-269 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-26 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-2 ..... c 03 N72-23048 *
US-PATENT-CLASS-310-300 ..... c 71 N84-23233 *
US-PATENT-CLASS-310-306 ..... c 33 N80-18287 *
US-PATENT-CLASS-310-306 ..... c 44 N83-32175 *
US-PATENT-CLASS-310-306 ..... c 34 N85-29179 *
US-PATENT-CLASS-310-306 ..... c 37 N87-23970 *
US-PATENT-CLASS-310-30 ..... c 44 N80-29834 *
US-PATENT-CLASS-310-30 ..... c 33 N87-23904 *
US-PATENT-CLASS-310-311 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-317 ..... c 35 N84-22932 *
US-PATENT-CLASS-310-319 ..... c 33 N80-23559 *
US-PATENT-CLASS-310-322 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-324 ..... c 33 N86-20671 *
US-PATENT-CLASS-310-326 ..... c 38 N79-14398 *
US-PATENT-CLASS-310-327 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-332 ..... c 76 N83-34796 *
US-PATENT-CLASS-310-334 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-334 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-334 ..... c 35 N84-22932 *
US-PATENT-CLASS-310-336 ..... c 38 N79-14398 *
US-PATENT-CLASS-310-338 ..... c 35 N89-14407 *
US-PATENT-CLASS-310-360 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-366 ..... c 35 N84-22932 *
US-PATENT-CLASS-310-4A ..... c 37 N77-19458 *
US-PATENT-CLASS-310-4R ..... c 33 N74-27583 *
US-PATENT-CLASS-310-4R ..... c 73 N77-18891 *
US-PATENT-CLASS-310-40 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-42 ..... c 14 N72-22439 *
US-PATENT-CLASS-310-46 ..... c 33 N79-20314 *
US-PATENT-CLASS-310-4 ..... c 09 N69-21313 * #
US-PATENT-CLASS-310-4 ..... c 03 N69-39898 * #
US-PATENT-CLASS-310-4 ..... c 09 N69-39929 * #
US-PATENT-CLASS-310-4 ..... c 03 N70-34134 *
US-PATENT-CLASS-310-4 ..... c 03 N71-11055 *
US-PATENT-CLASS-310-4 ..... c 22 N71-23599 *
US-PATENT-CLASS-310-4 ..... c 09 N71-24807 *
US-PATENT-CLASS-310-4 ..... c 33 N71-27862 *
US-PATENT-CLASS-310-4 ..... c 09 N71-28421 *
US-PATENT-CLASS-310-4 ..... c 09 N72-25260 *
US-PATENT-CLASS-310-4 ..... c 09 N72-27228 *
US-PATENT-CLASS-310-4 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-4 ..... c 36 N75-30524 *
US-PATENT-CLASS-310-4 ..... c 44 N76-16612 *
US-PATENT-CLASS-310-51 ..... c 15 N71-27169 *
US-PATENT-CLASS-310-52 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-54 ..... c 09 N71-20446 *
US-PATENT-CLASS-310-5 ..... c 03 N70-35408 *

US-PATENT-CLASS-310-68B ..... c 35 N84-28017 *
US-PATENT-CLASS-310-68 ..... c 15 N72-25456 *
US-PATENT-CLASS-310-77 ..... c 37 N85-30333 *
US-PATENT-CLASS-310-8.2 ..... c 35 N76-15432 *
US-PATENT-CLASS-310-8.5 ..... c 14 N71-22993 *
US-PATENT-CLASS-310-800 ..... c 76 N83-34796 *
US-PATENT-CLASS-310-80 ..... c 15 N72-25456 *
US-PATENT-CLASS-310-82 ..... c 33 N79-20314 *
US-PATENT-CLASS-310-83 ..... c 15 N72-25456 *
US-PATENT-CLASS-310-9.1 ..... c 15 N71-21311 *
US-PATENT-CLASS-310-90.5 ..... c 37 N87-17038 *
US-PATENT-CLASS-310-93 ..... c 15 N71-17652 *
US-PATENT-CLASS-310-93 ..... c 37 N85-30333 *
US-PATENT-CLASS-311-37 ..... c 35 N75-29380 *
US-PATENT-CLASS-312-196 ..... c 54 N88-24163 *
US-PATENT-CLASS-312-1 ..... c 05 N71-23080 *
US-PATENT-CLASS-312-1 ..... c 05 N73-20137 *
US-PATENT-CLASS-312-1 ..... c 37 N74-20063 *
US-PATENT-CLASS-312-208 ..... c 54 N88-24163 *
US-PATENT-CLASS-312-209 ..... c 37 N74-18123 *
US-PATENT-CLASS-312-257 ..... c 31 N72-22874 *
US-PATENT-CLASS-312-296 ..... c 09 N71-18600 *
US-PATENT-CLASS-312-300 ..... c 54 N88-24163 *
US-PATENT-CLASS-312-319 ..... c 37 N79-33467 *
US-PATENT-CLASS-312-7.2 ..... c 54 N88-24163 *
US-PATENT-CLASS-313-DIG.8 .... c 26 N73-24783 *
US-PATENT-CLASS-313-104 ..... c 14 N73-32317 *
US-PATENT-CLASS-313-106 ..... c 24 N83-10117 *
US-PATENT-CLASS-313-106 ..... c 70 N84-28565 *
US-PATENT-CLASS-313-106 ..... c 31 N86-32587 *
US-PATENT-CLASS-313-107 ..... c 24 N83-10117 *
US-PATENT-CLASS-313-107 ..... c 70 N84-28565 *
US-PATENT-CLASS-313-107 ..... c 31 N86-32587 *
US-PATENT-CLASS-313-109.5 .... c 09 N71-33519 *
US-PATENT-CLASS-313-11.5 ..... c 26 N70-39925 *
US-PATENT-CLASS-313-110 ..... c 09 N71-12521 *
US-PATENT-CLASS-313-131A .... c 33 N85-21491 *
US-PATENT-CLASS-313-146 ..... c 33 N77-22386 *
US-PATENT-CLASS-313-153 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-156 ..... c 25 N70-34661 *
US-PATENT-CLASS-313-156 ..... c 72 N80-27163 *
US-PATENT-CLASS-313-161 ..... c 25 N73-25760 *
US-PATENT-CLASS-313-161 ..... c 09 N73-30181 *
US-PATENT-CLASS-313-161 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-175 ..... c 33 N77-21316 *
US-PATENT-CLASS-313-175 ..... c 31 N78-17236 *
US-PATENT-CLASS-313-176 ..... c 31 N78-17236 *
US-PATENT-CLASS-313-180 ..... c 33 N77-21316 *
US-PATENT-CLASS-313-180 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-182 ..... c 33 N77-22386 *
US-PATENT-CLASS-313-184 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-184 ..... c 33 N77-21316 *
US-PATENT-CLASS-313-184 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-186 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-209 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-212 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-217 ..... c 26 N73-27699 *
US-PATENT-CLASS-313-217 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-218 ..... c 26 N73-27699 *
US-PATENT-CLASS-313-224 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-224 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-224 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-224 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-22 ..... c 09 N71-26787 *
US-PATENT-CLASS-313-22 ..... c 31 N78-17237 *
US-PATENT-CLASS-313-22 ..... c 31 N78-25256 *
US-PATENT-CLASS-313-22 ..... c 34 N79-20336 *
US-PATENT-CLASS-313-230 ..... c 26 N71-28850 *
US-PATENT-CLASS-313-230 ..... c 26 N73-27699 *
US-PATENT-CLASS-313-230 ..... c 20 N77-20162 *
US-PATENT-CLASS-313-231.3 .... c 20 N77-20162 *
US-PATENT-CLASS-313-231.3 .... c 75 N78-27913 *
US-PATENT-CLASS-313-231.4 .... c 20 N77-10148 *
US-PATENT-CLASS-313-231.4 .... c 72 N80-33186 *
US-PATENT-CLASS-313-231 ..... c 06 N69-39689 * #
US-PATENT-CLASS-313-231 ..... c 09 N71-23190 *
US-PATENT-CLASS-313-231 ..... c 09 N71-33519 *
US-PATENT-CLASS-313-231 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-231 ..... c 25 N72-32686 *
US-PATENT-CLASS-313-231 ..... c 26 N73-24783 *
US-PATENT-CLASS-313-231 ..... c 25 N73-25760 *
US-PATENT-CLASS-313-236 ..... c 09 N71-26182 *
US-PATENT-CLASS-313-237 ..... c 09 N71-26182 *
US-PATENT-CLASS-313-237 ..... c 33 N87-28832 *
US-PATENT-CLASS-313-240 ..... c 20 N77-10148 *
US-PATENT-CLASS-313-250 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-271 ..... c 25 N71-20747 *
US-PATENT-CLASS-313-278 ..... c 33 N87-28832 *
US-PATENT-CLASS-313-306 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-309 ..... c 10 N72-27246 *
US-PATENT-CLASS-313-309 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-311 ..... c 73 N77-18891 *
US-PATENT-CLASS-313-32 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-32 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-336 ..... c 10 N72-27246 *
US-PATENT-CLASS-313-336 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-348 ..... c 35 N82-24471 *
US-PATENT-CLASS-313-351 ..... c 10 N72-27246 *
US-PATENT-CLASS-313-351 ..... c 70 N84-28565 *
US-PATENT-CLASS-313-352 ..... c 09 N71-22987 *
US-PATENT-CLASS-313-355 ..... c 26 N73-27699 *
US-PATENT-CLASS-313-356 ..... c 14 N72-29464 *
US-PATENT-CLASS-313-359.1 .... c 72 N87-21660 *
US-PATENT-CLASS-313-35 ..... c 34 N79-20336 *
US-PATENT-CLASS-313-360 ..... c 20 N77-20162 *
US-PATENT-CLASS-313-361.1 .... c 72 N87-21660 *
US-PATENT-CLASS-313-361 ..... c 20 N77-10148 *
US-PATENT-CLASS-313-362.1 .... c 72 N87-21660 *
US-PATENT-CLASS-313-362 ..... c 72 N80-27163 *
US-PATENT-CLASS-313-362 ..... c 72 N80-33186 *
US-PATENT-CLASS-313-363 ..... c 72 N80-27163 *
US-PATENT-CLASS-313-442 ..... c 74 N78-18905 *
US-PATENT-CLASS-313-44 ..... c 15 N69-24319 * #
US-PATENT-CLASS-313-505 ..... c 33 N87-28831 *
US-PATENT-CLASS-313-506 ..... c 33 N87-28831 *
US-PATENT-CLASS-313-509 ..... c 33 N87-28831 *
US-PATENT-CLASS-313-60 ..... c 33 N77-22386 *
US-PATENT-CLASS-313-61S ..... c 73 N74-26767 *
US-PATENT-CLASS-313-61S ..... c 37 N78-13436 *
US-PATENT-CLASS-313-63 ..... c 28 N70-41576 *
US-PATENT-CLASS-313-63 ..... c 09 N71-10618 *
US-PATENT-CLASS-313-63 ..... c 28 N71-26781 *
US-PATENT-CLASS-313-63 ..... c 28 N73-24783 *
US-PATENT-CLASS-313-63 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-63 ..... c 75 N75-13625 *
US-PATENT-CLASS-313-7 ..... c 14 N71-18482 *
US-PATENT-CLASS-313-7 ..... c 14 N73-32324 *
US-PATENT-CLASS-313-93 ..... c 35 N74-26949 *
US-PATENT-CLASS-313-93 ..... c 35 N82-24471 *
US-PATENT-CLASS-313-94 ..... c 33 N75-31409 *
US-PATENT-CLASS-313-94 ..... c 74 N78-18905 *
US-PATENT-CLASS-314-129 ..... c 15 N69-24266 * #
US-PATENT-CLASS-315-DIG.2 .... c 16 N73-32391 *
US-PATENT-CLASS-315-101 ..... c 16 N73-32391 *
US-PATENT-CLASS-315-108 ..... c 09 N71-33519 *
US-PATENT-CLASS-315-108 ..... c 33 N77-21316 *
US-PATENT-CLASS-315-108 ..... c 36 N78-17366 *
US-PATENT-CLASS-315-10 ..... c 33 N74-21650 *
US-PATENT-CLASS-315-10 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-110 ..... c 33 N77-21316 *
US-PATENT-CLASS-315-111.2 .... c 75 N78-27913 *
US-PATENT-CLASS-315-111.31 .. c 33 N85-21491 *
US-PATENT-CLASS-315-111.3 .... c 20 N77-10148 *
US-PATENT-CLASS-315-111.3 .... c 20 N77-20162 *
US-PATENT-CLASS-315-111.41 .. c 72 N88-24253 *
US-PATENT-CLASS-315-111.6 .... c 75 N76-14931 *
US-PATENT-CLASS-315-111.6 .... c 20 N77-20162 *
US-PATENT-CLASS-315-111.71 .. c 72 N88-24253 *
US-PATENT-CLASS-315-111.81 .. c 33 N85-21491 *
US-PATENT-CLASS-315-111.81 .. c 33 N87-21234 *
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US-PATENT-CLASS-315-111 ..... c 25 N70-33267 *
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US-PATENT-CLASS-315-111 ..... c 14 N73-30391 *
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US-PATENT-CLASS-315-111 ..... c 33 N75-29318 *
US-PATENT-CLASS-315-111 ..... c 37 N75-29426 *
US-PATENT-CLASS-315-11 ..... c 33 N74-21650 *
US-PATENT-CLASS-315-12 ..... c 33 N74-21650 *
US-PATENT-CLASS-315-135 ..... c 09 N72-25250 *
US-PATENT-CLASS-315-145 ..... c 33 N80-14330 *
US-PATENT-CLASS-315-151 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-153 ..... c 14 N73-16483 *
US-PATENT-CLASS-315-153 ..... c 74 N79-12690 *
US-PATENT-CLASS-315-156 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-158 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-160 ..... c 09 N71-12540 *
US-PATENT-CLASS-315-169R .... c 23 N73-13660 *
US-PATENT-CLASS-315-169 ..... c 36 N75-19652 *
US-PATENT-CLASS-315-169TV .. c 23 N73-13660 *
US-PATENT-CLASS-315-172 ..... c 33 N88-24862 *
US-PATENT-CLASS-315-173 ..... c 33 N88-24862 *
US-PATENT-CLASS-315-176 ..... c 33 N77-28385 *
US-PATENT-CLASS-315-18 ..... c 32 N74-20813 *
US-PATENT-CLASS-315-18 ..... c 33 N75-19517 *
US-PATENT-CLASS-315-200-R ... c 33 N88-23942 *
US-PATENT-CLASS-315-208 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-209CD .. c 37 N79-11405 *
US-PATENT-CLASS-315-209SC .. c 37 N79-11405 *
US-PATENT-CLASS-315-211 ..... c 33 N74-20859 *
US-PATENT-CLASS-315-22R ..... c 10 N72-31273 *
US-PATENT-CLASS-315-224 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-225 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-227-R ... c 33 N88-23942 *
US-PATENT-CLASS-315-228 ..... c 33 N74-20859 *
US-PATENT-CLASS-315-22 ..... c 10 N72-20225 *
US-PATENT-CLASS-315-22 ..... c 32 N74-20813 *
US-PATENT-CLASS-315-22 ..... c 33 N78-17293 *
US-PATENT-CLASS-315-237 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-241-R ... c 33 N88-23942 *
US-PATENT-CLASS-315-241R .... c 37 N79-11405 *
US-PATENT-CLASS-315-241R .... c 33 N83-34189 *
US-PATENT-CLASS-315-241 ..... c 09 N71-13518 *
US-PATENT-CLASS-315-246 ..... c 09 N73-30181 *
US-PATENT-CLASS-315-24 ..... c 06 N71-20671 *
US-PATENT-CLASS-315-254 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-255 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-256 ..... c 16 N73-32391 *
US-PATENT-CLASS-315-25 ..... c 10 N72-20225 *
US-PATENT-CLASS-315-260 ..... c 33 N80-14330 *
US-PATENT-CLASS-315-26 ..... c 09 N71-23189 *
US-PATENT-CLASS-315-276 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-277 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-297 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-3.5 ..... c 09 N73-13208 *
US-PATENT-CLASS-315-3.5 ..... c 33 N79-10339 *
US-PATENT-CLASS-315-3.5 ..... c 33 N82-26588 *
US-PATENT-CLASS-315-3.5 ..... c 33 N84-16452 *
US-PATENT-CLASS-315-3.5 ..... c 37 N85-33489 *
US-PATENT-CLASS-315-3.5 ..... c 33 N86-21742 *
US-PATENT-CLASS-315-3.5 ..... c 33 N90-22724 *
US-PATENT-CLASS-315-3.6 ..... c 33 N79-10339 *
US-PATENT-CLASS-315-3.6 ..... c 33 N82-24415 *
US-PATENT-CLASS-315-3.6 ..... c 33 N82-26588 *
US-PATENT-CLASS-315-3.6 ..... c 33 N84-16452 *
US-PATENT-CLASS-315-3.6 ..... c 33 N84-27974 *
US-PATENT-CLASS-315-3.6 ..... c 33 N86-21742 *
US-PATENT-CLASS-315-30R ..... c 10 N72-31273 *
US-PATENT-CLASS-315-307 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-30 ..... c 33 N75-27250 *
US-PATENT-CLASS-315-310 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-311 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-324 ..... c 09 N73-30181 *
US-PATENT-CLASS-315-326 ..... c 25 N72-24753 *
US-PATENT-CLASS-315-334 ..... c 33 N80-14330 *
US-PATENT-CLASS-315-344 ..... c 33 N77-21315 *
US-PATENT-CLASS-315-349 ..... c 09 N72-25250 *
US-PATENT-CLASS-315-356 ..... c 16 N73-32391 *
US-PATENT-CLASS-315-358 ..... c 25 N72-24753 *
US-PATENT-CLASS-315-367 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-369 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-36 ..... c 10 N72-27246 *
US-PATENT-CLASS-315-387 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-39.3 ..... c 33 N84-16452 *
US-PATENT-CLASS-315-39.3 ..... c 33 N84-27974 *
US-PATENT-CLASS-315-39.3 ..... c 33 N86-21742 *
US-PATENT-CLASS-315-3 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-3 ..... c 33 N90-22724 *
US-PATENT-CLASS-315-4 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-5.35 ..... c 33 N74-10195 *
US-PATENT-CLASS-315-5.35 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-5.38 ..... c 09 N73-13208 *
US-PATENT-CLASS-315-5.38 ..... c 33 N74-10195 *
US-PATENT-CLASS-315-5.38 ..... c 33 N82-24415 *
US-PATENT-CLASS-315-5.38 ..... c 24 N83-10117 *
US-PATENT-CLASS-315-5.38 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-5.38 ..... c 70 N84-28565 *
US-PATENT-CLASS-315-5.38 ..... c 37 N85-33489 *
US-PATENT-CLASS-315-5.38 ..... c 31 N86-32587 *
US-PATENT-CLASS-315-5 ..... c 33 N83-31952 *
US-PATENT-CLASS-317-DIG.3 .... c 10 N71-26334 *
US-PATENT-CLASS-317-DIG.6 .... c 10 N73-26228 *
US-PATENT-CLASS-317-100 ..... c 10 N71-26783 *
US-PATENT-CLASS-317-100 ..... c 10 N73-25243 *
US-PATENT-CLASS-317-101A .... c 09 N72-33205 *
US-PATENT-CLASS-317-101A .... c 23 N73-13660 *
US-PATENT-CLASS-317-101DH .. c 15 N72-22496 *
US-PATENT-CLASS-317-101DH .. c 10 N73-25243 *
US-PATENT-CLASS-317-101 ..... c 09 N71-26133 *
US-PATENT-CLASS-317-117 ..... c 15 N72-22496 *
US-PATENT-CLASS-317-120 ..... c 15 N72-22496 *
US-PATENT-CLASS-317-122 ..... c 15 N71-18701 *
US-PATENT-CLASS-317-123 ..... c 09 N71-24882 *
US-PATENT-CLASS-317-140 ..... c 09 N70-34502 *
US-PATENT-CLASS-317-148.5 .... c 10 N71-23271 *
US-PATENT-CLASS-317-148.5 .... c 09 N71-24882 *
US-PATENT-CLASS-317-153 ..... c 10 N71-26334 *
US-PATENT-CLASS-317-155.5 .... c 09 N71-29008 *
US-PATENT-CLASS-317-157.5 .... c 15 N69-21472 * #
US-PATENT-CLASS-317-158 ..... c 15 N73-28518 *
US-PATENT-CLASS-317-158 ..... c 26 N73-28710 *
US-PATENT-CLASS-317-158 ..... c 15 N73-32361 *
US-PATENT-CLASS-317-16 ..... c 09 N69-39897 * #
US-PATENT-CLASS-317-16 ..... c 33 N74-17829 *
US-PATENT-CLASS-317-20 ..... c 33 N77-10429 *
US-PATENT-CLASS-317-20 ..... c 10 N71-26531 *
US-PATENT-CLASS-317-230 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-230 ..... c 26 N72-28761 *
US-PATENT-CLASS-317-231 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-234A .... c 15 N73-14469 *

US-PATENT-CLASS-317-234D ..... c 14 N72-31446 *
US-PATENT-CLASS-317-234E ..... c 33 N74-12951 *
US-PATENT-CLASS-317-234F ..... c 33 N74-12951 *
US-PATENT-CLASS-317-234G ..... c 14 N72-31446 *
US-PATENT-CLASS-317-234G ..... c 15 N73-14469 *
US-PATENT-CLASS-317-234G ..... c 09 N73-27150 * #
US-PATENT-CLASS-317-234J ..... c 26 N72-25679 *
US-PATENT-CLASS-317-234L ..... c 09 N73-27150 * #
US-PATENT-CLASS-317-234M ..... c 09 N73-27150 * #
US-PATENT-CLASS-317-234M ..... c 33 N74-12951 *
US-PATENT-CLASS-317-234N ..... c 09 N73-27150 * #
US-PATENT-CLASS-317-234N ..... c 33 N74-12951 *
US-PATENT-CLASS-317-234R ..... c 09 N73-27150 * #
US-PATENT-CLASS-317-234R ..... c 33 N74-12951 *
US-PATENT-CLASS-317-234V ..... c 26 N72-21701 *
US-PATENT-CLASS-317-234V ..... c 09 N73-15235 *
US-PATENT-CLASS-317-234 ..... c 14 N69-23191 * #
US-PATENT-CLASS-317-234 ..... c 09 N69-27422 * #
US-PATENT-CLASS-317-234 ..... c 26 N71-18064 *
US-PATENT-CLASS-317-235AG .. c 09 N73-15235 *
US-PATENT-CLASS-317-235AJ ... c 26 N72-25679 *
US-PATENT-CLASS-317-235AJ ... c 09 N72 33205 *
US-PATENT-CLASS-317-235AM . c 09 N73-19235 *
US-PATENT-CLASS-317-235A .... c 26 N72-25679 *
US-PATENT-CLASS-317-235A .... c 09 N72-33205 *
US-PATENT-CLASS-317-235H .... c 35 N75-13213 *
US-PATENT-CLASS-317-235K .... c 09 N73-15235 *
US-PATENT-CLASS-317-235M .... c 14 N72-31446 *
US-PATENT-CLASS-317-235N .... c 09 N73-19235 *
US-PATENT-CLASS-317-235N .... c 35 N74-15090 *
US-PATENT-CLASS-317-235R .... c 26 N72-21701 *
US-PATENT-CLASS-317-235R .... c 26 N72-25679 *
US-PATENT-CLASS-317-235R .... c 14 N72-31446 *
US-PATENT-CLASS-317-235R .... c 09 N73-19235 *
US-PATENT-CLASS-317-235R .... c 09 N73-32112 *
US-PATENT-CLASS-317-235T .... c 09 N73-19235 *
US-PATENT-CLASS-317-235UA .. c 09 N73-19235 *
US-PATENT-CLASS-317-235WW .. c 09 N73-32112 *
US-PATENT-CLASS-317-235 ..... c 09 N69-24318 * #
US-PATENT-CLASS-317-235 ..... c 09 N72-33205 *
US-PATENT-CLASS-317-238 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-245 ..... c 33 N79-21265 *
US-PATENT-CLASS-317-246 ..... c 14 N69-21541 * #
US-PATENT-CLASS-317-246 ..... c 33 N76-21390 *
US-PATENT-CLASS-317-246 ..... c 35 N76-22509 * #
US-PATENT-CLASS-317-247 ..... c 14 N72-24477 *
US-PATENT-CLASS-317-258 ..... c 09 N71-13522 *
US-PATENT-CLASS-317-258 ..... c 33 N76-15373 *
US-PATENT-CLASS-317-261 ..... c 26 N72-28761 *
US-PATENT-CLASS-317-261 ..... c 33 N76-15373 *
US-PATENT-CLASS-317-31 ..... c 09 N71-12526 *
US-PATENT-CLASS-317-31 ..... c 10 N71-23543 *
US-PATENT-CLASS-317-31 ..... c 33 N74-17929 *
US-PATENT-CLASS-317-31 ..... c 33 N77-14333 *
US-PATENT-CLASS-317-33SC .... c 33 N74-14956 *
US-PATENT-CLASS-317-33 ..... c 10 N71-26531 *
US-PATENT-CLASS-317-33 ..... c 09 N71-27001 *
US-PATENT-CLASS-317-33 ..... c 10 N71-27366 *
US-PATENT-CLASS-317-33 ..... c 09 N71-29006 *
US-PATENT-CLASS-317-43 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-46 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-47 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-48 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-54 ..... c 09 N71-29006 *
US-PATENT-CLASS-317-60 ..... c 09 N71-29006 *
US-PATENT-CLASS-317-9 ..... c 09 N71-22796 *
US-PATENT-CLASS-317-9 ..... c 09 N71-27001 *
US-PATENT-CLASS-318-107 ..... c 44 N87-21410 *
US-PATENT-CLASS-318-116 ..... c 71 N79-20827 *
US-PATENT-CLASS-318-116 ..... c 71 N84-23233 *
US-PATENT-CLASS-318-116 ..... c 33 N87-28833 *
US-PATENT-CLASS-318-135 ..... c 33 N82-24421 *
US-PATENT-CLASS-318-137 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-138 ..... c 09 N71-10677 *
US-PATENT-CLASS-318-138 ..... c 14 N71-17585 *
US-PATENT-CLASS-318-138 ..... c 10 N71-18772 *
US-PATENT-CLASS-318-138 ..... c 09 N71-25999 *
US-PATENT-CLASS-318-138 ..... c 33 N77-26386 *
US-PATENT-CLASS-318-138 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-138 ..... c 33 N87-21233 *
US-PATENT-CLASS-318-15 ..... c 37 N80-32716 *
US-PATENT-CLASS-318-161 ..... c 44 N87-21410 *
US-PATENT-CLASS-318-167 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-176 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-183 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-20.105 .. c 08 N71-27057 *
US-PATENT-CLASS-318-200 ..... c 33 N78-10376 *
US-PATENT-CLASS-318-227 ..... c 07 N71-33613 *
US-PATENT-CLASS-318-227 ..... c 33 N75-15874 *
US-PATENT-CLASS-318-227 ..... c 33 N77-26386 *
US-PATENT-CLASS-318-227 ..... c 33 N78-10376 *
US-PATENT-CLASS-318-22 ..... c 15 N71-17694 *
US-PATENT-CLASS-318-230 ..... c 07 N71-33613 *
US-PATENT-CLASS-318-230 ..... c 10 N73-32145 *
US-PATENT-CLASS-318-230 ..... c 33 N75-15874 *
US-PATENT-CLASS-318-230 ..... c 33 N78-10376 *

US-PATENT-CLASS-318-231 ..... c 10 N73-32145 *
US-PATENT-CLASS-318-231 ..... c 33 N75-15874 *
US-PATENT-CLASS-318-254 ..... c 09 N71-25999 *
US-PATENT-CLASS-318-254 ..... c 09 N73-32107 *
US-PATENT-CLASS-318-254 ..... c 33 N77-26386 *
US-PATENT-CLASS-318-254 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-254 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-254 ..... c 33 N87-21233 *
US-PATENT-CLASS-318-257 ..... c 10 N71-18724 *
US-PATENT-CLASS-318-258 ..... c 09 N71-26092 *
US-PATENT-CLASS-318-260 ..... c 09 N70-38712 *
US-PATENT-CLASS-318-265 ..... c 15 N71-24895 *
US-PATENT-CLASS-318-267 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-308 ..... c 11 N72-20244 *
US-PATENT-CLASS-318-314 ..... c 10 N71-20448 *
US-PATENT-CLASS-318-314 ..... c 09 N75-24758 *
US-PATENT-CLASS-318-317 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-318 ..... c 09 N71-24805 *
US-PATENT-CLASS-318-318 ..... c 09 N75-24758 *
US-PATENT-CLASS-318-31 ..... c 15 N71-28952 *
US-PATENT-CLASS-318-327 ..... c 11 N72-20244 *
US-PATENT-CLASS-318-328 ..... c 09 N73-32107 *
US-PATENT-CLASS-318-331 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-341 ..... c 10 N73-32145 *
US-PATENT-CLASS-318-341 ..... c 09 N75-24758 *
US-PATENT-CLASS-318-345 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-376 ..... c 10 N71-16030 *
US-PATENT-CLASS-318-376 ..... c 11 N72-20244 *
US-PATENT-CLASS-318-382 ..... c 15 N71-24695 *
US-PATENT-CLASS-318-434 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-438 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-439 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-439 ..... c 33 N87-21233 *
US-PATENT-CLASS-318-468 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-46 ..... c 44 N85-21769 *
US-PATENT-CLASS-318-470 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-489 ..... c 02 N73-19004 *
US-PATENT-CLASS-318-48 ..... c 37 N86-27629 *
US-PATENT-CLASS-318-504 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-561 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-561 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-564 ..... c 60 N82-29013 *
US-PATENT-CLASS-318-571 ..... c 10 N71-27136 *
US-PATENT-CLASS-318-573 ..... c 35 N79-14348 *
US-PATENT-CLASS-318-576 ..... c 09 N72-21246 *
US-PATENT-CLASS-318-577 ..... c 37 N86-21850 *
US-PATENT-CLASS-318-580 ..... c 08 N74-10942 *
US-PATENT-CLASS-318-580 ..... c 04 N82-23231 *
US-PATENT-CLASS-318-584 ..... c 08 N81-24106 *
US-PATENT-CLASS-318-584 ..... c 08 N86-27288 *
US-PATENT-CLASS-318-585 ..... c 08 N79-23097 *
US-PATENT-CLASS-318-587 ..... c 35 N84-33769 *
US-PATENT-CLASS-318-594 ..... c 35 N79-14348 *
US-PATENT-CLASS-318-599 ..... c 10 N71-24861 *
US-PATENT-CLASS-318-602 ..... c 33 N74-29556 *
US-PATENT-CLASS-318-603 ..... c 33 N74-29556 *
US-PATENT-CLASS-318-605 ..... c 31 N86-29055 *
US-PATENT-CLASS-318-608 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-611 ..... c 37 N85-30333 *
US-PATENT-CLASS-318-615 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-616 ..... c 08 N79-23097 *
US-PATENT-CLASS-318-618 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-620 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-621 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-622 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-628 ..... c 08 N74-10942 *
US-PATENT-CLASS-318-632 ..... c 37 N86-27629 *
US-PATENT-CLASS-318-636 ..... c 31 N86-29055 *
US-PATENT-CLASS-318-640 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-640 ..... c 54 N75-27758 *
US-PATENT-CLASS-318-640 ..... c 35 N79-14348 *
US-PATENT-CLASS-318-640 ..... c 37 N81-27519 *
US-PATENT-CLASS-318-640 ..... c 08 N86-27288 *
US-PATENT-CLASS-318-649 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-653 ..... c 10 N71-27136 *
US-PATENT-CLASS-318-661 ..... c 31 N86-29055 *
US-PATENT-CLASS-318-663 ..... c 37 N81-33483 *
US-PATENT-CLASS-318-663 ..... c 37 N86-27629 *
US-PATENT-CLASS-318-664 ..... c 33 N74-29556 *
US-PATENT-CLASS-318-675 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-675 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-685 ..... c 33 N83-35227 *
US-PATENT-CLASS-318-729 ..... c 33 N83-34190 *
US-PATENT-CLASS-318-729 ..... c 33 N84-14424 *
US-PATENT-CLASS-318-729 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-729 ..... c 33 N84-22886 *
US-PATENT-CLASS-318-729 ..... c 33 N84-27975 *
US-PATENT-CLASS-318-729 ..... c 33 N84-33661 *
US-PATENT-CLASS-318-729 ..... c 44 N85-21769 *
US-PATENT-CLASS-318-729 ..... c 33 N85-22877 *
US-PATENT-CLASS-318-798 ..... c 33 N83-34190 *
US-PATENT-CLASS-318-798 ..... c 33 N83-35227 *
US-PATENT-CLASS-318-798 ..... c 33 N84-14424 *
US-PATENT-CLASS-318-798 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-799 ..... c 33 N81-27395 *
US-PATENT-CLASS-318-799 ..... c 33 N84-16455 *

US-PATENT-CLASS-318-800 ..... c 33 N83-31953 *
US-PATENT-CLASS-318-802 ..... c 33 N84-33661 *
US-PATENT-CLASS-318-803 ..... c 33 N83-10345 *
US-PATENT-CLASS-318-803 ..... c 33 N83-31953 *
US-PATENT-CLASS-318-805 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-806 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-806 ..... c 33 N83-34190 *
US-PATENT-CLASS-318-806 ..... c 33 N83-35227 *
US-PATENT-CLASS-318-806 ..... c 33 N84-14424 *
US-PATENT-CLASS-318-809 ..... c 33 N83-31953 *
US-PATENT-CLASS-318-809 ..... c 33 N84-27975 *
US-PATENT-CLASS-318-810 ..... c 33 N81-27395 *
US-PATENT-CLASS-318-810 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-812 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-812 ..... c 33 N84-22886 *
US-PATENT-CLASS-318-812 ..... c 33 N85-22877 *
US-PATENT-CLASS-318-830 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-8 ..... c 37 N86-27629 *
US-PATENT-CLASS-32-28 ..... c 05 N73-27062 *
US-PATENT-CLASS-32-58 ..... c 05 N73-27062 *
US-PATENT-CLASS-320-13 ..... c 03 N71-29129 *
US-PATENT-CLASS-320-13 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-15 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-15 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-17 ..... c 03 N71-24605 *
US-PATENT-CLASS-320-18 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-21 ..... c 44 N76-18643 *
US-PATENT-CLASS-320-22 ..... c 44 N76-18643 *
US-PATENT-CLASS-320-23 ..... c 03 N71-19438 *
US-PATENT-CLASS-320-2 ..... c 44 N77-14581 *
US-PATENT-CLASS-320-32 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-39 ..... c 03 N71-24719 *
US-PATENT-CLASS-320-39 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-40 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-48 ..... c 03 N72-25020 *
US-PATENT-CLASS-320-53 ..... c 33 N78-17296 *
US-PATENT-CLASS-320-6 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-9 ..... c 44 N78-25531 *
US-PATENT-CLASS-321-1.5 ..... c 09 N73-32109 *
US-PATENT-CLASS-321-10 ..... c 09 N72-17154 *
US-PATENT-CLASS-321-11 ..... c 09 N69-39984 * #
US-PATENT-CLASS-321-11 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-11 ..... c 10 N73-26228 *
US-PATENT-CLASS-321-12 ..... c 10 N71-27366 *
US-PATENT-CLASS-321-13 ..... c 33 N77-14333 *
US-PATENT-CLASS-321-14 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-15 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-15 ..... c 33 N75-19522 *
US-PATENT-CLASS-321-18 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-18 ..... c 09 N72-25251 *
US-PATENT-CLASS-321-18 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-18 ..... c 33 N74-11049 *
US-PATENT-CLASS-321-19 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-19 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-19 ..... c 33 N77-10428 *
US-PATENT-CLASS-321-25 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-2 ..... c 03 N69-21330 * #
US-PATENT-CLASS-321-2 ..... c 03 N69-25148 * #
US-PATENT-CLASS-321-2 ..... c 03 N71-12255 *
US-PATENT-CLASS-321-2 ..... c 09 N71-23188 *
US-PATENT-CLASS-321-2 ..... c 03 N71-23239 *
US-PATENT-CLASS-321-2 ..... c 10 N71-26085 *
US-PATENT-CLASS-321-2 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-2 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-2 ..... c 03 N72-23048 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25249 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25251 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25253 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25254 *
US-PATENT-CLASS-321-2 ..... c 33 N74-11049 *
US-PATENT-CLASS-321-2 ..... c 33 N77-10428 *
US-PATENT-CLASS-321-45C ..... c 10 N73-26228 *
US-PATENT-CLASS-321-45ER .... c 09 N72-25252 *
US-PATENT-CLASS-321-45R ..... c 09 N72-25252 *
US-PATENT-CLASS-321-45R ..... c 09 N72-25254 *
US-PATENT-CLASS-321-45R ..... c 33 N74-22864 *
US-PATENT-CLASS-321-45S ..... c 33 N74-11049 *
US-PATENT-CLASS-321-45 ..... c 09 N71-24800 *
US-PATENT-CLASS-321-45 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-47 ..... c 09 N71-33109 *
US-PATENT-CLASS-321-47 ..... c 09 N72-25253 *
US-PATENT-CLASS-321-48 ..... c 12 N71-20896 *
US-PATENT-CLASS-321-5 ..... c 08 N71-18752 *
US-PATENT-CLASS-321-60 ..... c 14 N71-23174 *
US-PATENT-CLASS-321-61 ..... c 09 N71-27364 *
US-PATENT-CLASS-321-64 ..... c 09 N71-27364 *
US-PATENT-CLASS-321-69 ..... c 10 N71-28414 *
US-PATENT-CLASS-321-8R ..... c 35 N74-18090 *
US-PATENT-CLASS-321-9 ..... c 10 N71-25139 *
US-PATENT-CLASS-322-2R ..... c 07 N83-20944 *
US-PATENT-CLASS-322-25 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-29 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-29 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-2 ..... c 03 N72-23048 *
US-PATENT-CLASS-322-32 ..... c 09 N71-27364 *

US-PATENT-CLASS-322-35 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-47 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-47 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-95 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-95 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-96 ..... c 33 N77-26387 *
US-PATENT-CLASS-323-DIG.1 .... c 09 N72-21243 *
US-PATENT-CLASS-323-DIG.1 .... c 09 N72-25249 *
US-PATENT-CLASS-323-DIG.1 .... c 33 N74-11049 *
US-PATENT-CLASS-323-DIG.1 .... c 33 N77-10428 *
US-PATENT-CLASS-323-106 ..... c 33 N74-22885 *
US-PATENT-CLASS-323-122 ..... c 33 N74-22885 *
US-PATENT-CLASS-323-128 ..... c 33 N74-22885 *
US-PATENT-CLASS-323-15 ..... c 20 N79-20179 *
US-PATENT-CLASS-323-15 ..... c 44 N80-14472 *
US-PATENT-CLASS-323-17 ..... c 09 N72-25249 *
US-PATENT-CLASS-323-17 ..... c 33 N77-10428 *
US-PATENT-CLASS-323-18 ..... c 33 N78-17295 *
US-PATENT-CLASS-323-19 ..... c 08 N72-31226 *
US-PATENT-CLASS-323-19 ..... c 33 N78-17296 *
US-PATENT-CLASS-323-19 ..... c 44 N80-14472 *
US-PATENT-CLASS-323-20 ..... c 14 N71-27407 *
US-PATENT-CLASS-323-20 ..... c 20 N79-20179 *
US-PATENT-CLASS-323-22T ..... c 09 N72-21243 *
US-PATENT-CLASS-323-22T ..... c 09 N72-25249 *
US-PATENT-CLASS-323-22T ..... c 33 N77-10428 *
US-PATENT-CLASS-323-22T ..... c 33 N79-23345 *
US-PATENT-CLASS-323-22 ..... c 09 N71-21449 *
US-PATENT-CLASS-323-22 ..... c 09 N71-23316 *
US-PATENT-CLASS-323-23 ..... c 33 N77-10428 *
US-PATENT-CLASS-323-243 ..... c 33 N84-16455 *
US-PATENT-CLASS-323-246 ..... c 33 N84-16455 *
US-PATENT-CLASS-323-269 ..... c 33 N83-27126 *
US-PATENT-CLASS-323-300 ..... c 33 N84-27975 *
US-PATENT-CLASS-323-303 ..... c 33 N83-27126 *
US-PATENT-CLASS-323-350 ..... c 33 N83-27126 *
US-PATENT-CLASS-323-354 ..... c 33 N90-19492 *
US-PATENT-CLASS-323-36 ..... c 09 N72-21243 *
US-PATENT-CLASS-323-44F ..... c 33 N79-17133 *
US-PATENT-CLASS-323-48 ..... c 09 N71-27053 *
US-PATENT-CLASS-323-48 ..... c 09 N72-25262 *
US-PATENT-CLASS-323-4 ..... c 33 N78-17294 *
US-PATENT-CLASS-323-56 ..... c 10 N71-22961 *
US-PATENT-CLASS-323-56 ..... c 09 N71-24893 *
US-PATENT-CLASS-323-56 ..... c 09 N72-22196 *
US-PATENT-CLASS-323-60 ..... c 09 N71-27053 *
US-PATENT-CLASS-323-62 ..... c 09 N72-25262 *
US-PATENT-CLASS-323-69C ..... c 09 N72-22196 *
US-PATENT-CLASS-323-8 ..... c 10 N71-10578 *
US-PATENT-CLASS-323-901 ..... c 33 N84-33663 *
US-PATENT-CLASS-323-903 ..... c 33 N90-20320 *
US-PATENT-CLASS-324-93 ..... c 33 N77-31404 *
US-PATENT-CLASS-324-.5R ..... c 16 N73-13489 *
US-PATENT-CLASS-324-.5 ..... c 14 N71-20428 *
US-PATENT-CLASS-324-DIG.1 .... c 33 N75-19520 *
US-PATENT-CLASS-324-DIG.1 .... c 33 N75-25041 *
US-PATENT-CLASS-324-0.5 ..... c 14 N71-26137 *
US-PATENT-CLASS-324-0.5 ..... c 14 N71-26266 *
US-PATENT-CLASS-324-0.5 ..... c 36 N79-14362 *
US-PATENT-CLASS-324-102 ..... c 09 N72-11225 *
US-PATENT-CLASS-324-102 ..... c 33 N74-17930 *
US-PATENT-CLASS-324-102 ..... c 33 N75-19521 *
US-PATENT-CLASS-324-102 ..... c 33 N79-11315 *
US-PATENT-CLASS-324-102 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-103 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-106 ..... c 14 N70-38602 *
US-PATENT-CLASS-324-106 ..... c 08 N71-29138 *
US-PATENT-CLASS-324-107 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-112 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-113 ..... c 09 N70-41655 *
US-PATENT-CLASS-324-113 ..... c 33 N75-19521 *
US-PATENT-CLASS-324-113 ..... c 33 N79-11315 *
US-PATENT-CLASS-324-113 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-115 ..... c 14 N71-26244 *
US-PATENT-CLASS-324-115 ..... c 10 N72-20222 *
US-PATENT-CLASS-324-117 ..... c 14 N71-23037 *
US-PATENT-CLASS-324-117 ..... c 33 N89-29681 *
US-PATENT-CLASS-324-118 ..... c 33 N74-17930 *
US-PATENT-CLASS-324-119 ..... c 09 N72-11225 *
US-PATENT-CLASS-324-120 ..... c 14 N71-19431 *
US-PATENT-CLASS-324-120 ..... c 09 N71-23021 *
US-PATENT-CLASS-324-123C .... c 33 N79-22373 *
US-PATENT-CLASS-324-123R .... c 09 N72-11225 *
US-PATENT-CLASS-324-127 ..... c 33 N79-18193 *
US-PATENT-CLASS-324-127 ..... c 33 N89-29681 *
US-PATENT-CLASS-324-130 ..... c 35 N78-28411 *
US-PATENT-CLASS-324-132 ..... c 09 N71-13530 *
US-PATENT-CLASS-324-132 ..... c 10 N72-20222 *
US-PATENT-CLASS-324-133 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-133 ..... c 33 N79-10337 *
US-PATENT-CLASS-324-133 ..... c 33 N79-11315 *
US-PATENT-CLASS-324-133 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-133 ..... c 33 N79-18193 *
US-PATENT-CLASS-324-158-D ... c 33 N87-22894 *
US-PATENT-CLASS-324-158-R ... c 33 N87-22894 *
US-PATENT-CLASS-324-158D .... c 15 N72-25457 *
US-PATENT-CLASS-324-158D .... c 76 N76-20994 *
US-PATENT-CLASS-324-158D .... c 44 N80-18551 *
US-PATENT-CLASS-324-158D .... c 76 N84-35112 * #
US-PATENT-CLASS-324-158D .... c 76 N85-30923 *
US-PATENT-CLASS-324-158R .... c 76 N76-20994 *
US-PATENT-CLASS-324-158R .... c 33 N85-30187 *
US-PATENT-CLASS-324-158T .... c 15 N72-25457 *
US-PATENT-CLASS-324-158T .... c 35 N75-12270 *
US-PATENT-CLASS-324-158T .... c 76 N76-20994 *
US-PATENT-CLASS-324-158T .... c 33 N80-14332 *
US-PATENT-CLASS-324-158T .... c 76 N84-35112 * #
US-PATENT-CLASS-324-158 ..... c 09 N69-21926 * #
US-PATENT-CLASS-324-163 ..... c 35 N77-30436 *
US-PATENT-CLASS-324-165 ..... c 35 N77-30436 *
US-PATENT-CLASS-324-173 ..... c 35 N78-32396 *
US-PATENT-CLASS-324-174 ..... c 35 N77-30436 *
US-PATENT-CLASS-324-181 ..... c 09 N71-24717 *
US-PATENT-CLASS-324-186 ..... c 09 N72-25257 *
US-PATENT-CLASS-324-186 ..... c 52 N74-12778 *
US-PATENT-CLASS-324-20R ..... c 09 N72-23172 *
US-PATENT-CLASS-324-20R ..... c 44 N79-12541 *
US-PATENT-CLASS-324-207 ..... c 35 N78-32396 *
US-PATENT-CLASS-324-209 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-226 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-226 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-227 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-22 ..... c 44 N79-12541 *
US-PATENT-CLASS-324-234 ..... c 27 N90-23544 *
US-PATENT-CLASS-324-235 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-236 ..... c 27 N90-23544 *
US-PATENT-CLASS-324-238 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-239 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-240 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-249 ..... c 35 N78-32397 *
US-PATENT-CLASS-324-250 ..... c 35 N84-12444 *
US-PATENT-CLASS-324-262 ..... c 35 N84-22928 *
US-PATENT-CLASS-324-262 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-29.5 .... c 03 N72-25020 *
US-PATENT-CLASS-324-29.5 .... c 14 N73-30388 *
US-PATENT-CLASS-324-29.5 .... c 44 N74-27519 *
US-PATENT-CLASS-324-30B ..... c 33 N76-19339 *
US-PATENT-CLASS-324-30R ..... c 14 N73-20478 *
US-PATENT-CLASS-324-329 ..... c 35 N90-22023 *
US-PATENT-CLASS-324-32 ..... c 14 N71-16014 *
US-PATENT-CLASS-324-32 ..... c 33 N75-18477 *
US-PATENT-CLASS-324-32 ..... c 33 N75-19522 *
US-PATENT-CLASS-324-32 ..... c 35 N78-28411 *
US-PATENT-CLASS-324-33 ..... c 25 N69-39884 * #
US-PATENT-CLASS-324-33 ..... c 14 N70-35666 *
US-PATENT-CLASS-324-33 ..... c 24 N71-20518 *
US-PATENT-CLASS-324-33 ..... c 14 N71-21090 *
US-PATENT-CLASS-324-33 ..... c 14 N71-27090 *
US-PATENT-CLASS-324-34FL .... c 35 N74-21018 *
US-PATENT-CLASS-324-34R ..... c 26 N76-18257 *
US-PATENT-CLASS-324-34 ..... c 25 N71-16073 *
US-PATENT-CLASS-324-404 ..... c 44 N80-18551 *
US-PATENT-CLASS-324-40 ..... c 38 N74-15395 *
US-PATENT-CLASS-324-41 ..... c 10 N72-28240 *
US-PATENT-CLASS-324-427 ..... c 35 N85-21596 *
US-PATENT-CLASS-324-43R ..... c 35 N76-18390 *
US-PATENT-CLASS-324-43 ..... c 14 N69-27423 * #
US-PATENT-CLASS-324-43 ..... c 09 N70-40123 *
US-PATENT-CLASS-324-43 ..... c 14 N71-15962 *
US-PATENT-CLASS-324-43 ..... c 14 N71-26135 *
US-PATENT-CLASS-324-43 ..... c 14 N71-27325 *
US-PATENT-CLASS-324-457 ..... c 72 N84-28575 *
US-PATENT-CLASS-324-466 ..... c 33 N83-31954 *
US-PATENT-CLASS-324-51 ..... c 33 N80-26599 *
US-PATENT-CLASS-324-51 ..... c 33 N81-26359 *
US-PATENT-CLASS-324-51 ..... c 33 N82-24420 *
US-PATENT-CLASS-324-52 ..... c 14 N72-17325 *
US-PATENT-CLASS-324-52 ..... c 14 N73-28486 *
US-PATENT-CLASS-324-52 ..... c 33 N79-18193 *
US-PATENT-CLASS-324-52 ..... c 33 N82-24420 *
US-PATENT-CLASS-324-54 ..... c 33 N75-18477 *
US-PATENT-CLASS-324-57DE .... c 33 N78-25319 *
US-PATENT-CLASS-324-57H ..... c 35 N77-32455 *
US-PATENT-CLASS-324-57PS .... c 35 N75-21582 *
US-PATENT-CLASS-324-57R ..... c 15 N72-21464 *
US-PATENT-CLASS-324-57R ..... c 14 N73-30388 *
US-PATENT-CLASS-324-57R ..... c 35 N74-18090 *
US-PATENT-CLASS-324-57R ..... c 33 N79-10338 *
US-PATENT-CLASS-324-57R ..... c 35 N79-14349 *
US-PATENT-CLASS-324-57SS .... c 33 N78-25319 *
US-PATENT-CLASS-324-57 ..... c 10 N71-16057 *
US-PATENT-CLASS-324-57 ..... c 09 N71-20569 *
US-PATENT-CLASS-324-58.5A ... c 33 N75-26245 *
US-PATENT-CLASS-324-58.5B ... c 43 N78-10529 *
US-PATENT-CLASS-324-58.5C ... c 33 N75-26245 *
US-PATENT-CLASS-324-58.5 ..... c 15 N71-17822 *
US-PATENT-CLASS-324-58.5 ..... c 25 N71-20563 *
US-PATENT-CLASS-324-58.5 ..... c 14 N71-26137 *
US-PATENT-CLASS-324-58.5 ..... c 16 N71-27397 *
US-PATENT-CLASS-324-58A ..... c 33 N78-25319 *
US-PATENT-CLASS-324-59 ..... c 35 N77-32455 *
US-PATENT-CLASS-324-5 ..... c 14 N71-28991 *
US-PATENT-CLASS-324-60C ..... c 35 N75-12270 *
US-PATENT-CLASS-324-60C ..... c 76 N76-20994 *
US-PATENT-CLASS-324-60 ..... c 33 N77-31404 *
US-PATENT-CLASS-324-61-R .... c 35 N87-22953 *
US-PATENT-CLASS-324-61-R .... c 35 N88-29149 *
US-PATENT-CLASS-324-61R ..... c 14 N72-24477 *
US-PATENT-CLASS-324-61R ..... c 35 N76-22509 *
US-PATENT-CLASS-324-61 ..... c 14 N69-39785 * #
US-PATENT-CLASS-324-61 ..... c 14 N70-36618 *
US-PATENT-CLASS-324-61 ..... c 14 N71-10797 *
US-PATENT-CLASS-324-61 ..... c 16 N71-27397 *
US-PATENT-CLASS-324-61 ..... c 14 N72-22442 *
US-PATENT-CLASS-324-62R ..... c 14 N73-30388 *
US-PATENT-CLASS-324-62 ..... c 33 N80-32650 *
US-PATENT-CLASS-324-62 ..... c 33 N90-19492 *
US-PATENT-CLASS-324-64 ..... c 15 N72-21464 *
US-PATENT-CLASS-324-64 ..... c 33 N80-32650 *
US-PATENT-CLASS-324-65-P .... c 35 N85-34373 *
US-PATENT-CLASS-324-65P ..... c 14 N73-20478 *
US-PATENT-CLASS-324-65R ..... c 15 N72-23497 *
US-PATENT-CLASS-324-65R ..... c 33 N85-30187 *
US-PATENT-CLASS-324-65 ..... c 14 N71-27186 *
US-PATENT-CLASS-324-66 ..... c 05 N72-16015 *
US-PATENT-CLASS-324-70 ..... c 14 N70-41332 *
US-PATENT-CLASS-324-70 ..... c 14 N71-22990 *
US-PATENT-CLASS-324-70 ..... c 10 N71-24863 *
US-PATENT-CLASS-324-71.3 .... c 72 N84-28575 *
US-PATENT-CLASS-324-71.5 .... c 76 N85-30923 *
US-PATENT-CLASS-324-71CP .... c 35 N76-22509 *
US-PATENT-CLASS-324-71CP .... c 35 N82-11431 *
US-PATENT-CLASS-324-71R ..... c 09 N72-21248 *
US-PATENT-CLASS-324-71R ..... c 15 N72-21464 *
US-PATENT-CLASS-324-71 ..... c 09 N71-24843 *
US-PATENT-CLASS-324-72.5 .... c 44 N74-27519 *
US-PATENT-CLASS-324-72.5 .... c 72 N84-28575 *
US-PATENT-CLASS-324-72 ..... c 10 N71-19421 *
US-PATENT-CLASS-324-72 ..... c 14 N71-23699 *
US-PATENT-CLASS-324-72 ..... c 07 N73-20175 *
US-PATENT-CLASS-324-72 ..... c 14 N73-32318 *
US-PATENT-CLASS-324-72 ..... c 33 N74-27862 *
US-PATENT-CLASS-324-72 ..... c 33 N75-26246 *
US-PATENT-CLASS-324-72 ..... c 33 N77-10429 *
US-PATENT-CLASS-324-72 ..... c 33 N79-10337 *
US-PATENT-CLASS-324-72 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-72 ..... c 47 N82-24779 *
US-PATENT-CLASS-324-73AT .... c 08 N72-22166 *
US-PATENT-CLASS-324-73AT .... c 33 N81-26359 *
US-PATENT-CLASS-324-73R ..... c 33 N83-18996 *
US-PATENT-CLASS-324-73 ..... c 14 N71-26991 *
US-PATENT-CLASS-324-74 ..... c 35 N78-28411 *
US-PATENT-CLASS-324-77-E .... c 33 N89-14385 *
US-PATENT-CLASS-324-77-R .... c 33 N89-14385 *
US-PATENT-CLASS-324-77B ..... c 60 N75-13539 *
US-PATENT-CLASS-324-77B ..... c 32 N79-10262 *
US-PATENT-CLASS-324-77C ..... c 32 N79-10262 *
US-PATENT-CLASS-324-77G ..... c 08 N72-20177 *
US-PATENT-CLASS-324-77H ..... c 35 N75-21582 *
US-PATENT-CLASS-324-77K ..... c 35 N79-10391 *
US-PATENT-CLASS-324-77R ..... c 10 N73-25240 *
US-PATENT-CLASS-324-77R ..... c 47 N82-24779 *
US-PATENT-CLASS-324-77 ..... c 09 N71-10659 *
US-PATENT-CLASS-324-77 ..... c 07 N71-24822 *
US-PATENT-CLASS-324-78-D .... c 33 N89-14385 *
US-PATENT-CLASS-324-78-F .... c 33 N89-14385 *
US-PATENT-CLASS-324-78D ..... c 09 N72-25257 *
US-PATENT-CLASS-324-78D ..... c 52 N74-12778 *
US-PATENT-CLASS-324-78D ..... c 32 N90-17005 *
US-PATENT-CLASS-324-78E ..... c 14 N73-24473 *
US-PATENT-CLASS-324-78J ..... c 10 N73-25240 *
US-PATENT-CLASS-324-78J ..... c 33 N75-19515 *
US-PATENT-CLASS-324-78Z ..... c 32 N90-17005 *
US-PATENT-CLASS-324-79D ..... c 14 N73-30388 *
US-PATENT-CLASS-324-79D ..... c 33 N76-16331 *
US-PATENT-CLASS-324-79R ..... c 14 N72-27408 *
US-PATENT-CLASS-324-79R ..... c 33 N84-16454 *
US-PATENT-CLASS-324-83A ..... c 10 N72-20224 *
US-PATENT-CLASS-324-83A ..... c 33 N84-16454 *
US-PATENT-CLASS-324-83D ..... c 33 N79-10338 *
US-PATENT-CLASS-324-83Q ..... c 35 N74-21017 *
US-PATENT-CLASS-324-83Q ..... c 33 N75-26243 *
US-PATENT-CLASS-324-83R ..... c 33 N84-16454 *
US-PATENT-CLASS-324-85 ..... c 10 N72-20224 *
US-PATENT-CLASS-324-85 ..... c 33 N79-10338 *
US-PATENT-CLASS-324-92 ..... c 26 N72-25880 *
US-PATENT-CLASS-324-95 ..... c 10 N71-12554 *
US-PATENT-CLASS-324-95 ..... c 14 N73-30388 *
US-PATENT-CLASS-324-96 ..... c 26 N72-25880 *
US-PATENT-CLASS-324-96 ..... c 33 N79-10337 *
US-PATENT-CLASS-324-99D ..... c 33 N79-22373 *
US-PATENT-CLASS-325-10 ..... c 07 N72-12081 *
US-PATENT-CLASS-325-113 ..... c 07 N71-24840 *
US-PATENT-CLASS-325-113 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-113 ..... c 52 N74-28825 *
US-PATENT-CLASS-325-114 ..... c 07 N72-25171 *
US-PATENT-CLASS-325-114 ..... c 03 N76-32140 *
US-PATENT-CLASS-325-115 ..... c 03 N76-32140 *

US-PATENT-CLASS-325-118 ..... c 17 N78-17140 *
US-PATENT-CLASS-325-12 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-139 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-13 ..... c 07 N72-12081 *
US-PATENT-CLASS-325-141 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-141 ..... c 52 N74-26625 *
US-PATENT-CLASS-325-143 ..... c 05 N71-12342 *
US-PATENT-CLASS-325-145 ..... c 32 N77-14292 *
US-PATENT-CLASS-325-148 ..... c 32 N74-19790 *
US-PATENT-CLASS-325-14 ..... c 17 N76-21250 *
US-PATENT-CLASS-325-14 ..... c 32 N80-20448 *
US-PATENT-CLASS-325-151.11 .. c 08 N71-27057 *
US-PATENT-CLASS-325-159 ..... c 33 N78-32340 *
US-PATENT-CLASS-325-163 ..... c 07 N71-23405 *
US-PATENT-CLASS-325-16 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-17 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-185 ..... c 07 N71-28430 *
US-PATENT-CLASS-325-186 ..... c 03 N76-32140 *
US-PATENT-CLASS-325-187 ..... c 33 N78-32340 *
US-PATENT-CLASS-325-23 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-29 ..... c 09 N72-22202 *
US-PATENT-CLASS-325-302 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-304 ..... c 32 N76-14321 *
US-PATENT-CLASS-325-305 ..... c 07 N71-10775 *
US-PATENT-CLASS-325-305 ..... c 10 N71-20841 *
US-PATENT-CLASS-325-305 ..... c 07 N71-23098 *
US-PATENT-CLASS-325-305 ..... c 32 N80-18253 *
US-PATENT-CLASS-325-306 ..... c 32 N76-14321 *
US-PATENT-CLASS-325-307 ..... c 32 N80-18253 *
US-PATENT-CLASS-325-30 ..... c 32 N74-26654 *
US-PATENT-CLASS-325-30 ..... c 32 N75-24981 *
US-PATENT-CLASS-325-30 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-31 ..... c 07 N71-20791 *
US-PATENT-CLASS-325-320 ..... c 33 N74-12887 *
US-PATENT-CLASS-325-320 ..... c 32 N74-20809 *
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US-PATENT-CLASS-325-320 ..... c 33 N74-27705 *
US-PATENT-CLASS-325-321 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-321 ..... c 32 N74-20810 *
US-PATENT-CLASS-325-321 ..... c 32 N76-16249 *
US-PATENT-CLASS-325-323 ..... c 32 N77-10392 *
US-PATENT-CLASS-325-325 ..... c 07 N71-24613 *
US-PATENT-CLASS-325-325 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-325 ..... c 07 N73-13149 *
US-PATENT-CLASS-325-346 ..... c 10 N73-16205 *
US-PATENT-CLASS-325-346 ..... c 32 N74-30523 *
US-PATENT-CLASS-325-346 ..... c 32 N77-24331 *
US-PATENT-CLASS-325-347 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-348 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-349 ..... c 32 N77-10392 *
US-PATENT-CLASS-325-363 ..... c 07 N71-11267 *
US-PATENT-CLASS-325-363 ..... c 14 N71-26774 *
US-PATENT-CLASS-325-363 ..... c 14 N72-28437 *
US-PATENT-CLASS-325-363 ..... c 10 N73-25241 *
US-PATENT-CLASS-325-363 ..... c 35 N80-18359 *
US-PATENT-CLASS-325-369 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-372 ..... c 32 N76-14321 *
US-PATENT-CLASS-325-373 ..... c 07 N72-33146 *
US-PATENT-CLASS-325-38B ..... c 35 N74-17885 *
US-PATENT-CLASS-325-38 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-38 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-39 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-40 ..... c 07 N73-26118 *
US-PATENT-CLASS-325-419 ..... c 10 N73-16205 *
US-PATENT-CLASS-325-419 ..... c 07 N73-26012 *
US-PATENT-CLASS-325-419 ..... c 32 N74-20810 *
US-PATENT-CLASS-325-419 ..... c 32 N74-20811 *
US-PATENT-CLASS-325-419 ..... c 32 N80-18253 *
US-PATENT-CLASS-325-41 ..... c 10 N71-26577 *
US-PATENT-CLASS-325-41 ..... c 32 N77-12240 *
US-PATENT-CLASS-325-41 ..... c 32 N79-10263 *
US-PATENT-CLASS-325-420 ..... c 07 N73-30113 *
US-PATENT-CLASS-325 422 ..... c 07 N73-30113 *
US-PATENT-CLASS-325-423 ..... c 32 N74-20809 *
US-PATENT-CLASS-325-42 ..... c 07 N71-11266 *
US-PATENT-CLASS-325-42 ..... c 32 N76-21366 *
US-PATENT-CLASS-325-42 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-445 ..... c 07 N72-20141 *
US-PATENT-CLASS-325-446 ..... c 09 N69-24324 * #
US-PATENT-CLASS-325-45 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-473 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-473 ..... c 10 N73-12244 *
US-PATENT-CLASS-325-473 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-476 ..... c 32 N77-10392 *
US-PATENT-CLASS-325-478 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-480 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-480 ..... c 10 N73-12244 *
US-PATENT-CLASS-325-482 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-492 ..... c 09 N72-17153 *
US-PATENT-CLASS-325-492 ..... c 09 N72-22202 *
US-PATENT-CLASS-325-4 ..... c 07 N71-16088 *
US-PATENT-CLASS-325-4 ..... c 07 N71-19773 *
US-PATENT-CLASS-325-4 ..... c 07 N71-24621 *
US-PATENT-CLASS-325-4 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-4 ..... c 07 N72-12080 *
US-PATENT-CLASS-325-4 ..... c 07 N72-20140 *

US-PATENT-CLASS-325-4 ..... c 07 N72-25171 *
US-PATENT-CLASS-325-4 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-4 ..... c 15 N75-13007 *
US-PATENT-CLASS-325-4 ..... c 32 N75-26195 *
US-PATENT-CLASS-325-4 ..... c 32 N77-20289 *
US-PATENT-CLASS-325-4 ..... c 32 N79-11265 *
US-PATENT-CLASS-325-4 ..... c 32 N80-20448 *
US-PATENT-CLASS-325-51 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-55 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-58 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-58 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-58 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-58 ..... c 32 N78-15323 *
US-PATENT-CLASS-325-58 ..... c 32 N79-20296 *
US-PATENT-CLASS-325-5 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-60 ..... c 08 N71-19763 *
US-PATENT-CLASS-325-60 ..... c 07 N73-16121 *
US-PATENT-CLASS-325-60 ..... c 32 N75-24981 *
US-PATENT-CLASS-325-61 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-62 ..... c 08 N72-25208 *
US-PATENT-CLASS-325-62 ..... c 44 N74-19870 *
US-PATENT-CLASS-325-63 ..... c 10 N71-19467 *
US-PATENT-CLASS-325-63 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-63 ..... c 32 N78-15323 *
US-PATENT-CLASS-325-63 ..... c 32 N79-20296 *
US PATENT-CLASS-325-64 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-65 ..... c 07 N70-41331 *
US-PATENT-CLASS-325-65 ..... c 07 N70-41372 *
US-PATENT-CLASS-325-65 ..... c 07 N71-11284 *
US-PATENT-CLASS-325-65 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-66 ..... c 17 N78-17140 *
US-PATENT-CLASS-325-67 ..... c 07 N71-26292 *
US-PATENT-CLASS-325-67 ..... c 10 N73-25241 *
US-PATENT-CLASS-325-67 ..... c 35 N75-21582 *
US-PATENT-CLASS-325-67 ..... c 32 N79-11265 *
US-PATENT-CLASS-325-7 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-8 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-8 ..... c 32 N80-20448 *
US-PATENT-CLASS-325-9 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-9 ..... c 32 N80-20448 *
US-PATENT-CLASS-328-104 ..... c 08 N72-22162 *
US-PATENT-CLASS-328-104 ..... c 10 N73-13235 *
US-PATENT-CLASS-328-106 ..... c 09 N72-22201 *
US-PATENT-CLASS-328-110 ..... c 09 N71-12519 *
US-PATENT-CLASS-328-111 ..... c 60 N77-12721 *
US-PATENT-CLASS-328-115 ..... c 33 N75-18479 *
US-PATENT-CLASS-328-116 ..... c 09 N69-39885 * #
US-PATENT-CLASS-328-120 ..... c 09 N71-27016 *
US-PATENT-CLASS-328-123 ..... c 60 N74-12888 *
US-PATENT-CLASS-328-129 ..... c 14 N73-30386 *
US-PATENT-CLASS-328-133 ..... c 09 N71-24596 *
US-PATENT-CLASS-328-133 ..... c 10 N72-20224 *
US-PATENT-CLASS-328-133 ..... c 33 N75-26243 *
US-PATENT-CLASS-328-133 ..... c 33 N77-13315 *
US-PATENT-CLASS-328-133 ..... c 33 N79-11313 *
US-PATENT-CLASS-328-133 ..... c 33 N84-16454 *
US-PATENT-CLASS-328-134 ..... c 08 N71-18692 *
US-PATENT-CLASS-328-134 ..... c 14 N73-30386 *
US-PATENT-CLASS-328-134 ..... c 33 N76-16331 *
US-PATENT-CLASS-328-134 ..... c 33 N81-17349 *
US-PATENT-CLASS-328-136 ..... c 09 N72-25257 *
US-PATENT-CLASS-328-140 ..... c 09 N72-25257 *
US-PATENT-CLASS-328-142 ..... c 09 N72-21245 *
US-PATENT-CLASS-328-145 ..... c 32 N76-14321 *
US-PATENT-CLASS-328-145 ..... c 09 N72-23173 *
US-PATENT-CLASS-328-145 ..... c 33 N78-32339 *
US-PATENT-CLASS-328-147 ..... c 33 N87-21235 *
US-PATENT-CLASS-328-150 ..... c 33 N78-18308 *
US-PATENT-CLASS-328-151 ..... c 09 N72-22200 *
US-PATENT-CLASS-328-151 ..... c 33 N75-18479 *
US-PATENT-CLASS-328-151 ..... c 33 N81-27396 *
US-PATENT-CLASS-328-154 ..... c 08 N72-22162 *
US-PATENT-CLASS-328-154 ..... c 10 N73-13235 *
US-PATENT-CLASS-328-154 ..... c 33 N74-22814 *
US-PATENT-CLASS-328-155 ..... c 10 N72-16172 *
US-PATENT-CLASS-328-155 ..... c 09 N72-33204 *
US-PATENT-CLASS-328-155 ..... c 33 N74-17927 *
US-PATENT-CLASS-328-155 ..... c 17 N76-22245 *
US-PATENT-CLASS-328-155 ..... c 32 N88-29076 *
US-PATENT-CLASS-328-160 ..... c 32 N74-19788 *
US-PATENT-CLASS-328-161 ..... c 33 N77-17354 *
US-PATENT-CLASS-328-163 ..... c 33 N79-10336 *
US-PATENT-CLASS-328-164 ..... c 07 N71-33696 *
US-PATENT-CLASS-328-164 ..... c 33 N87-21235 *
US-PATENT-CLASS-328-165 ..... c 09 N71-24808 *
US-PATENT-CLASS-328-165 ..... c 07 N71-33696 *
US-PATENT-CLASS-328-166 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-166 ..... c 33 N82-29539 *
US-PATENT-CLASS-328-167 ..... c 10 N71-22966 *
US-PATENT-CLASS-328-167 ..... c 08 N71-29034 *
US-PATENT-CLASS-328-167 ..... c 10 N72-17171 *
US-PATENT-CLASS-328-167 ..... c 09 N72-21245 *
US-PATENT-CLASS-328-167 ..... c 09 N73-20231 *
US-PATENT-CLASS-328-167 ..... c 08 N73-26175 *
US PATENT-CLASS-328-167 ..... c 33 N82-24417 *
US-PATENT-CLASS-328-167 ..... c 33 N85-29145 *

US-PATENT-CLASS-328-168 ..... c 32 N74-19788 *
US-PATENT-CLASS-328-16 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-171 ..... c 10 N71-24844 *
US-PATENT-CLASS-328-172 ..... c 32 N74-19788 *
US-PATENT-CLASS-328-172 ..... c 33 N78-17294 *
US-PATENT-CLASS-328-186 ..... c 09 N72-17157 *
US-PATENT-CLASS-328-187 ..... c 10 N73-20254 *
US-PATENT-CLASS-328-189 ..... c 14 N72-27408 *
US-PATENT-CLASS-328-190 ..... c 33 N78-14371 *
US-PATENT-CLASS-328-192 ..... c 60 N81-15706 *
US-PATENT-CLASS-328-1 ..... c 23 N71-16099 *
US-PATENT-CLASS-328-1 ..... c 10 N71-19472 *
US-PATENT-CLASS-328-1 ..... c 09 N72-22200 *
US-PATENT-CLASS-328-207 ..... c 09 N71-28468 *
US-PATENT-CLASS-328-207 ..... c 10 N71-28860 *
US-PATENT-CLASS-328-207 ..... c 09 N71-29139 *
US-PATENT-CLASS-328-207 ..... c 10 N72-20221 *
US-PATENT-CLASS-328-20 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-230 ..... c 35 N84-12444 *
US-PATENT-CLASS-328-233 ..... c 10 N71-22962 *
US-PATENT-CLASS-328-233 ..... c 75 N75-13625 *
US-PATENT-CLASS-328-233 ..... c 07 N78-17386 *
US-PATENT-CLASS-328-24 ..... c 09 N72-33204 *
US-PATENT-CLASS-328-28 ..... c 33 N87-21235 *
US-PATENT-CLASS-328-37 ..... c 08 N71-12503 *
US-PATENT-CLASS-328-37 ..... c 10 N73-20254 *
US-PATENT-CLASS-328-37 ..... c 33 N76-14373 *
US-PATENT-CLASS-328-37 ..... c 33 N81-17349 *
US-PATENT-CLASS-328-38 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-38 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-39 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-4-8 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-41 ..... c 33 N75-31330 *
US-PATENT-CLASS-328-42 ..... c 08 N71-19432 *
US-PATENT-CLASS-328-44 ..... c 08 N71-29034 *
US-PATENT-CLASS-328-48 ..... c 14 N73-30386 *
US-PATENT-CLASS-328-48 ..... c 33 N74-10223 *
US-PATENT-CLASS-328-48 ..... c 60 N81-15706 *
US-PATENT-CLASS-328-49 ..... c 10 N71-27137 *
US-PATENT-CLASS-328-55 ..... c 33 N81-17349 *
US-PATENT-CLASS-328-58 ..... c 08 N71-29138 *
US-PATENT-CLASS-328-58 ..... c 33 N74-32711 *
US-PATENT-CLASS-328-58 ..... c 33 N75-18479 *
US-PATENT-CLASS-328-59 ..... c 33 N75-19515 *
US-PATENT-CLASS-328-61 ..... c 09 N71-23525 *
US-PATENT-CLASS-328-61 ..... c 10 N73-20254 *
US-PATENT-CLASS-328-61 ..... c 35 N75-30504 *
US-PATENT-CLASS-328-62 ..... c 35 N75-30504 *
US-PATENT-CLASS-328-63 ..... c 33 N76-14371 *
US-PATENT-CLASS-328-63 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-67 ..... c 10 N71-28960 *
US-PATENT-CLASS-328-67 ..... c 33 N82-24418 *
US-PATENT-CLASS-328-67 ..... c 33 N88-24882 *
US-PATENT-CLASS-328-71 ..... c 60 N81-15706 *
US-PATENT-CLASS-328-92 ..... c 10 N71-28860 *
US-PATENT-CLASS-329-104 ..... c 07 N71-11282 *
US-PATENT-CLASS-329-104 ..... c 33 N74-12887 *
US-PATENT-CLASS-329-104 ..... c 32 N77-24331 *
US-PATENT-CLASS-329-107 ..... c 35 N81-19427 *
US-PATENT-CLASS-329-107 ..... c 32 N87-21207 *
US-PATENT-CLASS-329-119 ..... c 33 N77-21314 *
US-PATENT-CLASS-329-120 ..... c 07 N73-30113 *
US-PATENT-CLASS-329-122 ..... c 10 N71-19469 *
US-PATENT-CLASS-329-122 ..... c 07 N73-26012 *
US-PATENT-CLASS-329-122 ..... c 33 N74-12887 *
US-PATENT-CLASS-329-122 ..... c 32 N74-20811 *
US-PATENT-CLASS-329-122 ..... c 33 N77-14334 *
US-PATENT-CLASS-329-122 ..... c 32 N77-24331 *
US-PATENT-CLASS-329-122 ..... c 32 N79-14267 *
US-PATENT-CLASS-329-122 ..... c 33 N81-33405 *
US-PATENT-CLASS-329-124 ..... c 33 N77-14334 *
US-PATENT-CLASS-329-124 ..... c 33 N78-32338 *
US-PATENT-CLASS-329-124 ..... c 32 N84-27952 *
US-PATENT-CLASS-329-126 ..... c 33 N74-12887 *
US-PATENT-CLASS-329-140 ..... c 07 N71-24583 *
US-PATENT-CLASS-329-145 ..... c 07 N71-33696 *
US-PATENT-CLASS-329-161 ..... c 07 N72-20141 *
US-PATENT-CLASS-329-162 ..... c 07 N72-20141 *
US-PATENT-CLASS-329-166 ..... c 33 N75-19520 *
US-PATENT-CLASS-329-166 ..... c 33 N75-25041 *
US-PATENT-CLASS-329-204 ..... c 33 N75-19520 *
US-PATENT-CLASS-329-204 ..... c 33 N75-25041 *
US-PATENT-CLASS-329-205 ..... c 33 N77-21314 *
US-PATENT-CLASS-329-50 ..... c 33 N74-17930 *
US-PATENT-CLASS-329-50 ..... c 35 N81-19427 *
US-PATENT-CLASS-33 8UB ..... c 27 N81-15104 *
US-PATENT-CLASS-33-DIG.13 ... c 35 N75-12273 *
US-PATENT-CLASS-33-DIG.3 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-1G ..... c 37 N76-21554 *
US-PATENT-CLASS-33-1M ..... c 35 N74-32877 *
US-PATENT-CLASS-33-1N ..... c 43 N79-26439 *
US-PATENT-CLASS-33-1Q ..... c 43 N79-26439 *
US-PATENT-CLASS-33-1SA ..... c 14 N72-28436 *
US-PATENT-CLASS-33-1SA ..... c 19 N74-21015 *
US-PATENT-CLASS-33-125R ..... c 52 N80-27072 *
US-PATENT-CLASS-33-125 ..... c 14 N72-11364 *

US-PATENT-CLASS-33-143C ..... c 52 N82-22875 *
US-PATENT-CLASS-33-147D ..... c 37 N86-14361 *
US-PATENT-CLASS-33-147 ..... c 15 N71-19489 *
US-PATENT-CLASS-33-148D ..... c 35 N75-19615 *
US-PATENT-CLASS-33-149 ..... c 14 N71-17657 *
US-PATENT-CLASS-33-15A ..... c 06 N72-11172 *
US-PATENT-CLASS-33-155R ..... c 33 N76-19336 *
US-PATENT-CLASS-33-166F ..... c 35 N84-26018 *
US-PATENT-CLASS-33-174B ..... c 37 N76-21554 *
US-PATENT-CLASS-33-174D ..... c 33 N76-19336 *
US-PATENT-CLASS-33-174L ..... c 43 N79-26439 *
US-PATENT-CLASS-33-174S ..... c 14 N72-22445 *
US-PATENT-CLASS-33-174 ..... c 14 N89-21363 * #
US-PATENT-CLASS-33-174 ..... c 14 N71-17658 *
US-PATENT-CLASS-33-174 ..... c 14 N71-24693 *
US-PATENT-CLASS-33-180R ..... c 35 N75-12273 *
US-PATENT-CLASS-33-189 ..... c 15 N71-26145 *
US-PATENT-CLASS-33-1 ..... c 14 N70-36907 *
US-PATENT-CLASS-33-204C ..... c 06 N72-11172 *
US-PATENT-CLASS-33-207 ..... c 15 N71-15571 *
US-PATENT-CLASS-33-23R ..... c 35 N74-32877 *
US-PATENT-CLASS-33-268 ..... c 89 N74-30686 *
US-PATENT-CLASS-33-285 ..... c 36 N74-21091 *
US-PATENT-CLASS-33-286 ..... c 18 N76-14186 *
US-PATENT-CLASS-33-293 ..... c 35 N84-16523 *
US-PATENT-CLASS-33-31 ..... c 14 N71-21079 *
US-PATENT-CLASS-33-322 ..... c 06 N83-33862 *
US-PATENT-CLASS-33-346 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-356 ..... c 04 N76-20114 *
US-PATENT-CLASS-33-356 ..... c 04 N77-19056 *
US-PATENT-CLASS-33-356 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-361 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-366 ..... c 35 N78-32395 *
US-PATENT-CLASS-33-46R ..... c 19 N74-21015 *
US-PATENT-CLASS-33-536 ..... c 37 N89-28831 *
US-PATENT-CLASS-33-72 ..... c 15 N72-11386 *
US-PATENT-CLASS-33-75R ..... c 14 N72-28436 *
US-PATENT-CLASS-33-96 ..... c 33 N75-30430 *
US-PATENT-CLASS-330-103 ..... c 32 N74-22006 *
US-PATENT-CLASS-330-107 ..... c 10 N72-11256 *
US-PATENT-CLASS-330-107 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-107 ..... c 33 N84-14421 *
US-PATENT-CLASS-330-107 ..... c 33 N87-22895 *
US-PATENT-CLASS-330-109 ..... c 10 N72-11256 *
US-PATENT-CLASS-330-109 ..... c 10 N72-17171 *
US-PATENT-CLASS-330-109 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-109 ..... c 09 N73-20231 *
US-PATENT-CLASS-330-109 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-109 ..... c 33 N84-14421 *
US-PATENT-CLASS-330-109 ..... c 33 N84-22687 *
US-PATENT-CLASS-330-10 ..... c 33 N74-14939 *
US-PATENT-CLASS-330-110 ..... c 33 N83-36356 *
US-PATENT-CLASS-330-11 ..... c 09 N71-13531 *
US-PATENT-CLASS-330-11 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-11 ..... c 09 N72-17156 *
US-PATENT-CLASS-330-124 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-12 ..... c 10 N72-33230 *
US-PATENT-CLASS-330-13 ..... c 10 N71-26415 *
US-PATENT-CLASS-330-13 ..... c 33 N75-30429 *
US-PATENT-CLASS-330-14 ..... c 09 N70-35440 *
US-PATENT-CLASS-330-14 ..... c 33 N77-14335 *
US-PATENT-CLASS-330-16 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-176 ..... c 10 N72-17171 *
US-PATENT-CLASS-330-18 ..... c 09 N72-17156 *
US-PATENT-CLASS-330-18 ..... c 33 N75-30429 *
US-PATENT-CLASS-330-200 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-207A ..... c 33 N75-30429 *
US-PATENT-CLASS-330-20 ..... c 09 N73-20232 *
US-PATENT-CLASS-330-22 ..... c 09 N71-10796 *
US-PATENT-CLASS-330-22 ..... c 09 N73-20232 *
US-PATENT-CLASS-330-24 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-24 ..... c 33 N75-30429 *
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US-PATENT-CLASS-330-261 ..... c 33 N86-20670 *
US-PATENT-CLASS-330-26 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-27R ..... c 10 N72-31273 *
US-PATENT-CLASS-330-277 ..... c 33 N84-22687 *
US-PATENT-CLASS-330-282 ..... c 33 N83-36356 *
US-PATENT-CLASS-330-289 ..... c 33 N83-34191 *
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US-PATENT-CLASS-330-28 ..... c 33 N74-21851 *
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US-PATENT-CLASS-330-290 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-294 ..... c 33 N82-24417 *
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US-PATENT-CLASS-330-35 ..... c 09 N72-17156 *
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US-PATENT-CLASS-330-4 ..... c 36 N78-18410 *
US-PATENT-CLASS-330-4 ..... c 36 N80-16372 *
US-PATENT-CLASS-330-4 ..... c 36 N83-35350 *
US-PATENT-CLASS-330-5.5 ..... c 71 N77-26919 *
US-PATENT-CLASS-330-51 ..... c 10 N71-28859 *
US-PATENT-CLASS-330-51 ..... c 33 N79-22373 *
US-PATENT-CLASS-330-52 ..... c 71 N78-14867 *
US-PATENT-CLASS-330-53 ..... c 33 N74-32660 *
US-PATENT-CLASS-330-59 ..... c 09 N72-25250 *
US-PATENT-CLASS-330-59 ..... c 33 N74-21851 *
US-PATENT-CLASS-330-59 ..... c 33 N77-14335 *
US-PATENT-CLASS-330-5 ..... c 33 N75-27251 *
US-PATENT-CLASS-330-61 ..... c 09 N71-23097 *
US-PATENT-CLASS-330-63 ..... c 33 N75-30428 *
US-PATENT-CLASS-330-6F ..... c 33 N74-32712 *
US-PATENT-CLASS-330-69 ..... c 33 N75-19518 *
US-PATENT-CLASS-330-6 ..... c 35 N75-13213 *
US-PATENT-CLASS-330-70CR ..... c 10 N73-27171 *
US-PATENT-CLASS-330-70R ..... c 09 N72-21245 *
US-PATENT-CLASS-330-80T ..... c 09 N73-20232 *
US-PATENT-CLASS-330-85 ..... c 09 N72-21245 *
US-PATENT-CLASS-330-86 ..... c 09 N73-20231 *
US-PATENT-CLASS-330-86 ..... c 33 N75-19518 *
US-PATENT-CLASS-330-86 ..... c 33 N79-22373 *
US-PATENT-CLASS-330-8 ..... c 33 N81-24338 *
US-PATENT-CLASS-330-8 ..... c 33 N89-29681 *
US-PATENT-CLASS-330-94 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-9 ..... c 33 N74-14939 *
US-PATENT-CLASS-331-DIG.1 ..... c 36 N75-30524 *
US-PATENT-CLASS-331-DIG.2 ..... c 33 N81-33405 *
US-PATENT-CLASS-331-1-A ..... c 33 N86-20668 *
US-PATENT-CLASS-331-1A ..... c 33 N74-10194 *
US-PATENT-CLASS-331-1A ..... c 33 N75-25040 *
US-PATENT-CLASS-331-1A ..... c 33 N79-11313 *
US-PATENT-CLASS-331-107A ..... c 71 N77-26919 *
US-PATENT-CLASS-331-107G ..... c 26 N72-25679 *
US-PATENT-CLASS-331-107G ..... c 09 N73-15235 *
US-PATENT-CLASS-331-107 ..... c 09 N71-16721 *
US-PATENT-CLASS-331-107 ..... c 26 N72-21701 *
US-PATENT-CLASS-331-108A ..... c 33 N74-20862 *
US-PATENT-CLASS-331-108D ..... c 33 N86-32624 *
US-PATENT-CLASS-331-109 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-109 ..... c 33 N74-26732 *
US-PATENT-CLASS-331-10 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-111 ..... c 10 N71-23689 *
US-PATENT-CLASS-331-111 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-113A ..... c 09 N72-25253 *
US-PATENT-CLASS-331-113A ..... c 09 N72-25254 *
US-PATENT-CLASS-331-113A ..... c 33 N74-11049 *
US-PATENT-CLASS-331-113R ..... c 33 N82-18494 *
US-PATENT-CLASS-331-113 ..... c 09 N70-38995 *
US-PATENT-CLASS-331-113 ..... c 10 N71-19418 *
US-PATENT-CLASS-331-113 ..... c 09 N71-19470 *
US-PATENT-CLASS-331-113 ..... c 10 N71-25882 *
US-PATENT-CLASS-331-113 ..... c 10 N71-25950 *
US-PATENT-CLASS-331-113 ..... c 09 N71-28810 *
US-PATENT-CLASS-331-114 ..... c 33 N77-17351 *
US-PATENT-CLASS-331-115 ..... c 10 N72-33230 *
US-PATENT-CLASS-331-115 ..... c 33 N74-20862 *
US-PATENT-CLASS-331-116-FE .. c 33 N86-19515 *
US-PATENT-CLASS-331-116-R ... c 33 N87-21232 *
US-PATENT-CLASS-331-116FE .. c 33 N90-23635 *
US-PATENT-CLASS-331-116R .... c 10 N72-33230 *
US-PATENT-CLASS-331-116R .... c 33 N74-20862 *
US-PATENT-CLASS-331-116R .... c 33 N86-32624 *
US-PATENT-CLASS-331-117-FE .. c 33 N86-19515 *
US-PATENT-CLASS-331-117-R ... c 33 N87-21232 *
US-PATENT-CLASS-331-117FE .. c 33 N90-23635 *
US-PATENT-CLASS-331-117R .... c 33 N74-26732 *
US-PATENT-CLASS-331-117 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-117 ..... c 09 N72-22203 *
US-PATENT-CLASS-331-12 ..... c 33 N78-32338 *
US-PATENT-CLASS-331-135 ..... c 10 N73-32145 *
US-PATENT-CLASS-331-14 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-14 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-14 ..... c 33 N79-11313 *
US-PATENT-CLASS-331-159 ..... c 33 N74-20862 *
US-PATENT-CLASS-331-162 ..... c 33 N86-26596 *
US-PATENT-CLASS-331-177-R ... c 33 N87-22895 *
US-PATENT-CLASS-331-177R .... c 09 N73-15235 *
US-PATENT-CLASS-331-177V .... c 33 N77-17351 *
US-PATENT-CLASS-331-177 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-178 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-17 ..... c 10 N71-20852 *
US-PATENT-CLASS-331-17 ..... c 10 N73-27171 *
US-PATENT-CLASS-331-17 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-17 ..... c 32 N88-29076 *
US-PATENT-CLASS-331-183 ..... c 33 N74-26732 *
US-PATENT-CLASS-331-18 ..... c 10 N71-26374 *
US-PATENT-CLASS-331-18 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-18 ..... c 33 N75-25040 *
US-PATENT-CLASS-331-23 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-23 ..... c 33 N77-14334 *
US-PATENT-CLASS-331-23 ..... c 33 N79-11313 *
US-PATENT-CLASS-331-25 ..... c 10 N73-27171 *
US-PATENT-CLASS-331-25 ..... c 33 N75-25040 *
US-PATENT-CLASS-331-25 ..... c 32 N88-29076 *
US-PATENT-CLASS-331-27 ..... c 33 N79-11313 *
US-PATENT-CLASS-331-2 ..... c 33 N86-20668 *
US-PATENT-CLASS-331-30 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-31 ..... c 33 N85-29143 *
US-PATENT-CLASS-331-34 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-36C ..... c 33 N77-14334 *
US-PATENT-CLASS-331-36C ..... c 33 N85-29143 *
US-PATENT-CLASS-331-3 ..... c 35 N76-15438 *
US-PATENT-CLASS-331-3 ..... c 33 N85-29143 *
US-PATENT-CLASS-331-3 ..... c 33 N88-26596 *
US-PATENT-CLASS-331-44 ..... c 14 N72-27408 *
US-PATENT-CLASS-331-45 ..... c 10 N73-16206 *
US-PATENT-CLASS-331-48 ..... c 33 N81-17349 *
US-PATENT-CLASS-331-4 ..... c 09 N89-21543 * #
US-PATENT-CLASS-331-4 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-4 ..... c 33 N78-32338 *
US-PATENT-CLASS-331-56 ..... c 33 N87-21232 *
US-PATENT-CLASS-331-62 ..... c 33 N74-11049 *
US-PATENT-CLASS-331-64 ..... c 33 N78-32338 *
US-PATENT-CLASS-331-65 ..... c 35 N75-29360 *
US-PATENT-CLASS-331-65 ..... c 33 N80-29559 *
US-PATENT-CLASS-331-66 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-66 ..... c 33 N86-32624 *
US-PATENT-CLASS-331-78 ..... c 09 N71-23598 *
US-PATENT-CLASS-331-78 ..... c 09 N73-12175 *
US-PATENT-CLASS-331-78 ..... c 33 N75-19515 *
US-PATENT-CLASS-331-7 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-82 ..... c 33 N84-27974 *
US-PATENT-CLASS-331-82 ..... c 33 N90-22724 *
US-PATENT-CLASS-331-90 ..... c 09 N73-15235 *
US-PATENT-CLASS-331-94.1 ..... c 33 N85-29143 *
US-PATENT-CLASS-331-94.1 ..... c 33 N86-26596 *
US-PATENT-CLASS-331-94.5A ... c 16 N73-33397 *
US-PATENT-CLASS-331-94.5A ... c 36 N75-27364 *
US-PATENT-CLASS-331-94.5C ... c 36 N75-31427 *
US-PATENT-CLASS-331-94.5C ... c 36 N76-18429 *
US-PATENT-CLASS-331-94.5C ... c 36 N76-24553 *
US-PATENT-CLASS-331-94.5C ... c 36 N76-29575 *
US-PATENT-CLASS-331-94.5C ... c 36 N80-14394 *
US-PATENT-CLASS-331-94.5C ... c 36 N82-13415 *
US-PATENT-CLASS-331-94.5D ... c 33 N74-20859 *
US-PATENT-CLASS-331-94.5D ... c 36 N77-19416 *
US-PATENT-CLASS-331-94.5D ... c 36 N77-25502 *
US-PATENT-CLASS-331-94.5D ... c 35 N77-27366 *
US-PATENT-CLASS-331-94.5D ... c 36 N82-13415 *
US-PATENT-CLASS-331-94.5G ... c 36 N75-31426 *
US-PATENT-CLASS-331-94.5G ... c 36 N77-19416 *
US-PATENT-CLASS-331-94.5G ... c 36 N78-17366 *
US-PATENT-CLASS-331-94.5G ... c 36 N79-27402 *
US-PATENT-CLASS-331-94.5G ... c 36 N79-18307 *
US-PATENT-CLASS-331-94.5G ... c 33 N82-24418 *
US-PATENT-CLASS-331-94.5K ... c 36 N74-15145 *
US-PATENT-CLASS-331-94.5L ... c 72 N79-13626 *
US-PATENT-CLASS-331-94.5M ... c 36 N75-19654 *
US-PATENT-CLASS-331-94.5PE . c 36 N75-32441 *
US-PATENT-CLASS-331-94.5PE . c 36 N77-19418 *
US-PATENT-CLASS-331-94.5PE . c 36 N78-27402 *
US-PATENT-CLASS-331-94.5PE . c 72 N79-13626 *
US-PATENT-CLASS-331-94.5PE . c 33 N82-24418 *
US-PATENT-CLASS-331-94.5P ... c 36 N75-19655 *
US-PATENT-CLASS-331-94.5P ... c 36 N75-31426 *

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US-PATENT-CLASS-331-94.5P .... c 36 N78-27402 *
US-PATENT-CLASS-331-94.5P .... c 72 N79-13826 *
US-PATENT-CLASS-331-94.5P .... c 36 N79-18307 *
US-PATENT-CLASS-331-94.5P .... c 36 N80-14384 *
US-PATENT-CLASS-331-94.5P .... c 36 N82-13415 *
US-PATENT-CLASS-331-94.5S .... c 36 N74-15145 *
US-PATENT-CLASS-331-94.5S .... c 36 N77-25499 *
US-PATENT-CLASS-331-94.5T .... c 35 N77-27366 *
US-PATENT-CLASS-331-94.5T .... c 36 N78-17366 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-18614 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-24832 *
US-PATENT-CLASS-331-94.5 ..... c 23 N71-26722 *
US-PATENT-CLASS-331-94.5 ..... c 15 N71-27135 *
US-PATENT-CLASS-331-94.5 ..... c 23 N71-29125 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-33410 *
US-PATENT-CLASS-331-94.5 ..... c 16 N72-12440 *
US-PATENT-CLASS-331-94.5 ..... c 25 N72-24753 *
US-PATENT-CLASS-331-94.5 ..... c 16 N72-25485 *
US-PATENT-CLASS-331-94.5 ..... c 07 N73-26119 *
US-PATENT-CLASS-331-94.5 ..... c 09 N73-32111 *
US-PATENT-CLASS-331-94.5 ..... c 16 N73-32391 *
US-PATENT-CLASS-331-94.5 ..... c 36 N76-18427 *
US-PATENT-CLASS-331-94-5G ... c 36 N75-32441 *
US-PATENT-CLASS-331-94 ..... c 16 N70-41578 *
US-PATENT-CLASS-331-94 ..... c 16 N72-26521 *
US-PATENT-CLASS-331-94 ..... c 16 N73-13489 *
US-PATENT-CLASS-331-94 ..... c 35 N76-15436 *
US-PATENT-CLASS-331-94 ..... c 36 N76-31512 *
US-PATENT-CLASS-331-94 ..... c 36 N79-14362 *
US-PATENT-CLASS-331-94 ..... c 36 N80-18372 *
US-PATENT-CLASS-331-96 ..... c 33 N85-29143 *
US-PATENT-CLASS-332-10 ..... c 06 N71-29138 *
US-PATENT-CLASS-332-11D ..... c 35 N74-17885 *
US-PATENT-CLASS-332-16 ..... c 33 N77-21314 *
US-PATENT-CLASS-332-18 ..... c 33 N77-17351 *
US-PATENT-CLASS-332-19 ..... c 10 N71-23544 *
US-PATENT-CLASS-332-1 ..... c 10 N71-23084 *
US-PATENT-CLASS-332-21 ..... c 06 N72-25208 *
US-PATENT-CLASS-332-22 ..... c 32 N77-14292 *
US-PATENT-CLASS-332-22 ..... c 33 N81-15192 *
US-PATENT-CLASS-332-23-A .... c 32 N87-25511 *
US-PATENT-CLASS-332-23R ..... c 32 N77-14292 *
US-PATENT-CLASS-332-23R ..... c 33 N81-15192 *
US-PATENT-CLASS-332-29 ..... c 07 N71-28429 *
US-PATENT-CLASS-332-2 ..... c 35 N75-19614 *
US-PATENT-CLASS-332-30V ..... c 33 N77-14334 *
US-PATENT-CLASS-332-30V ..... c 33 N77-17351 *
US-PATENT-CLASS-332-30 ..... c 10 N71-27271 *
US-PATENT-CLASS-332-30 ..... c 07 N71-28429 *
US-PATENT-CLASS-332-30 ..... c 33 N77-21314 *
US-PATENT-CLASS-332-31 ..... c 06 N71-12500 *
US-PATENT-CLASS-332-31 ..... c 26 N72-21701 *
US-PATENT-CLASS-332-47 ..... c 33 N75-19520 *
US-PATENT-CLASS-332-51W ..... c 07 N72-20141 *
US-PATENT-CLASS-332-52 ..... c 33 N77-21314 *
US-PATENT-CLASS-332-7.51 ..... c 16 N72-25485 *
US-PATENT-CLASS-332-7.51 ..... c 07 N73-26119 *
US-PATENT-CLASS-332-7.51 ..... c 33 N74-20859 *
US-PATENT-CLASS-332-7.51 ..... c 36 N76-18427 *
US-PATENT-CLASS-332-7.5 ..... c 36 N75-15029 *
US-PATENT-CLASS-332-7.5 ..... c 36 N78-18410 *
US-PATENT-CLASS-332-7.5 ..... c 36 N83-35350 *
US-PATENT-CLASS-332-751 ..... c 36 N80-16321 *
US-PATENT-CLASS-332-9R ..... c 06 N71-29138 *
US-PATENT-CLASS-332-9 ..... c 07 N71-12390 *
US-PATENT-CLASS-333-104 ..... c 33 N82-16340 *
US-PATENT-CLASS-333-12 ..... c 32 N80-32605 *
US-PATENT-CLASS-333-12 ..... c 33 N81-27397 *
US-PATENT-CLASS-333-14 ..... c 32 N74-19788 *
US-PATENT-CLASS-333-162 ..... c 33 N84-16452 *
US-PATENT-CLASS-333-162 ..... c 33 N84-27974 *
US-PATENT-CLASS-333-16 ..... c 33 N74-17927 *
US-PATENT-CLASS-333-17R ..... c 33 N78-32340 *
US-PATENT-CLASS-333-17 ..... c 44 N74-19870 *
US-PATENT-CLASS-333-18 ..... c 33 N74-17927 *
US-PATENT-CLASS-333-18 ..... c 32 N76-21366 *
US-PATENT-CLASS-333-204 ..... c 33 N81-17348 *
US-PATENT-CLASS-333-20 ..... c 33 N82-24418 *
US-PATENT-CLASS-333-21A ..... c 07 N71-33606 *
US-PATENT-CLASS-333-21R ..... c 33 N75-30430 *
US-PATENT-CLASS-333-214 ..... c 33 N87-22895 *
US-PATENT-CLASS-333-217 ..... c 33 N87-22895 *
US-PATENT-CLASS-333-21 ..... c 07 N71-10678 *
US-PATENT-CLASS-333-22F ..... c 32 N83-27085 *
US-PATENT-CLASS-333-231 ..... c 33 N85-29143 *
US-PATENT-CLASS-333-24.2 ..... c 36 N83-35350 *
US-PATENT-CLASS-333-24R ..... c 09 N72-29172 *
US-PATENT-CLASS-333-24R ..... c 36 N80-18372 *
US-PATENT-CLASS-333-246 ..... c 33 N82-16340 *
US-PATENT-CLASS-333-252 ..... c 32 N80-32605 *
US-PATENT-CLASS-333-254 ..... c 32 N83-27085 *
US-PATENT-CLASS-333-262 ..... c 33 N80-18285 *
US-PATENT-CLASS-333-30 ..... c 10 N71-25900 *
US-PATENT-CLASS-333-6 ..... c 07 N71-33606 *
US-PATENT-CLASS-333-70CR .... c 10 N72-17171 *

US-PATENT-CLASS-333-70R ..... c 32 N77-18307 *
US-PATENT-CLASS-333-72 ..... c 10 N71-25900 *
US-PATENT-CLASS-333-72 ..... c 71 N77-26919 *
US-PATENT-CLASS-333-73R ..... c 09 N73-26195 *
US-PATENT-CLASS-333-73S ..... c 09 N73-26195 *
US-PATENT-CLASS-333-73W ..... c 07 N72-20141 *
US-PATENT-CLASS-333-73 ..... c 07 N89-24323 * #
US-PATENT-CLASS-333-73 ..... c 09 N71-23573 *
US-PATENT-CLASS-333-75 ..... c 32 N77-18307 *
US-PATENT-CLASS-333-76 ..... c 32 N77-18307 *
US-PATENT-CLASS-333-79 ..... c 10 N70-41964 *
US-PATENT-CLASS-333-79 ..... c 09 N72-25256 *
US-PATENT-CLASS-333-7 ..... c 07 N71-33606 *
US-PATENT-CLASS-333-7 ..... c 07 N72-25179 *
US-PATENT-CLASS-333-80R ..... c 33 N74-32712 *
US-PATENT-CLASS-333-80T ..... c 10 N72-33230 *
US-PATENT-CLASS-333-80 ..... c 09 N71-12517 *
US-PATENT-CLASS-333-80 ..... c 09 N72-21245 *
US-PATENT-CLASS-333-81B ..... c 14 N73-13420 *
US-PATENT-CLASS-333-81R ..... c 07 N72-25170 *
US-PATENT-CLASS-333-81R ..... c 33 N78-32340 *
US-PATENT-CLASS-333-81R ..... c 32 N80-14281 *
US-PATENT-CLASS-333-81 ..... c 07 N71-29065 *
US-PATENT-CLASS-333-82A ..... c 09 N73-26195 *
US-PATENT-CLASS-333-82B ..... c 32 N77-18307 *
US-PATENT-CLASS-333-83BT ..... c 33 N75-30430 *
US-PATENT-CLASS-333-83R ..... c 36 N74-11313 *
US-PATENT-CLASS-333-83 ..... c 09 N71-24841 *
US-PATENT-CLASS-333-84M ..... c 09 N73-26195 *
US-PATENT-CLASS-333-8 ..... c 07 N89-24334 * #
US-PATENT-CLASS-333-95 ..... c 07 N71-27191 *
US-PATENT-CLASS-333-96 ..... c 09 N71-20445 *
US-PATENT-CLASS-333-96 ..... c 07 N71-27191 *
US-PATENT-CLASS-333-97R ..... c 36 N74-11313 *
US-PATENT-CLASS-333-97 ..... c 07 N89-27462 * #
US-PATENT-CLASS-333-98P ..... c 07 N72-25170 *
US-PATENT-CLASS-333-98P ..... c 09 N72-29172 *
US-PATENT-CLASS-333-98R ..... c 07 N72-25170 *
US-PATENT-CLASS-333-98R ..... c 09 N72-29172 *
US-PATENT-CLASS-333-98R ..... c 14 N73-13420 *
US-PATENT-CLASS-333-98R ..... c 33 N75-30430 *
US-PATENT-CLASS-333-98S ..... c 07 N72-25170 *
US-PATENT-CLASS-333-98 ..... c 09 N71-23548 *
US-PATENT-CLASS-333-98 ..... c 09 N71-24808 *
US-PATENT-CLASS-333-99S ..... c 32 N80-32605 *
US-PATENT-CLASS-335-100 ..... c 37 N85-30333 *
US-PATENT-CLASS-335-205 ..... c 09 N72-20199 *
US-PATENT-CLASS-335-216 ..... c 16 N71-26554 *
US-PATENT-CLASS-335-216 ..... c 23 N71-29049 *
US-PATENT-CLASS-335-216 ..... c 26 N73-32571 *
US-PATENT-CLASS-335-216 ..... c 20 N75-24837 *
US-PATENT-CLASS-335-216 ..... c 33 N79-21264 *
US-PATENT-CLASS-335-222 ..... c 35 N84-28017 *
US-PATENT-CLASS-335-229 ..... c 33 N82-24421 *
US-PATENT-CLASS-335-256 ..... c 33 N82-11357 *
US-PATENT-CLASS-335-266 ..... c 33 N82-11357 *
US-PATENT-CLASS-335-266 ..... c 33 N82-24421 *
US-PATENT-CLASS-335-296 ..... c 09 N73-30185 *
US-PATENT-CLASS-335-297 ..... c 09 N73-30185 *
US-PATENT-CLASS-335-300 ..... c 09 N70-41929 *
US-PATENT-CLASS-336-DIG.1 .... c 26 N73-26752 *
US-PATENT-CLASS-336-DIG.1 .... c 33 N79-17133 *
US-PATENT-CLASS-336-120 ..... c 33 N82-24422 *
US-PATENT-CLASS-336-178 ..... c 09 N72-17154 *
US-PATENT-CLASS-336-198 ..... c 09 N72-27226 *
US-PATENT-CLASS-336-198 ..... c 33 N85-29146 *
US-PATENT-CLASS-336-200 ..... c 26 N73-26752 *
US-PATENT-CLASS-336-210 ..... c 33 N74-17928 *
US-PATENT-CLASS-336-220 ..... c 09 N72-27226 *
US-PATENT-CLASS-336-60 ..... c 09 N72-27226 *
US-PATENT-CLASS-336-83 ..... c 33 N82-24422 *
US-PATENT-CLASS-336-84C ..... c 33 N85-29146 *
US-PATENT-CLASS-337-114 ..... c 09 N71-29035 *
US-PATENT-CLASS-337-121 ..... c 09 N71-29035 *
US-PATENT-CLASS-337-140 ..... c 37 N86-19604 *
US-PATENT-CLASS-337-14 ..... c 31 N83-31897 *
US-PATENT-CLASS-337-334 ..... c 37 N77-19458 *
US-PATENT-CLASS-337-354 ..... c 15 N72-12409 *
US-PATENT-CLASS-337-359 ..... c 15 N72-12409 *
US-PATENT-CLASS-337-363 ..... c 37 N87-23970 *
US-PATENT-CLASS-337-75 ..... c 15 N72-12409 *
US-PATENT-CLASS-337 ..... c 25 N79-28253 *
US-PATENT-CLASS-338-100 ..... c 35 N78-17359 *
US-PATENT-CLASS-338-114 ..... c 52 N74-27864 *
US-PATENT-CLASS-338-13 ..... c 24 N75-30260 *
US-PATENT-CLASS-338-162 ..... c 37 N75-13265 *
US-PATENT-CLASS-338-18 ..... c 35 N79-33449 *
US-PATENT-CLASS-338-229 ..... c 35 N77-24454 *
US-PATENT-CLASS-338-25 ..... c 35 N77-21393 *
US-PATENT-CLASS-338-25 ..... c 35 N82-24470 *
US-PATENT-CLASS-338-275 ..... c 35 N82-24470 *
US-PATENT-CLASS-338-283 ..... c 24 N75-30260 *
US-PATENT-CLASS-338-28 ..... c 35 N77-20400 *
US-PATENT-CLASS-338-28 ..... c 35 N77-24454 *
US-PATENT-CLASS-338-28 ..... c 35 N82-24470 *
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US-PATENT-CLASS-338-2 ..... c 35 N80-20560 *
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US-PATENT-CLASS-338-2 ..... c 35 N84-12443 *
US-PATENT-CLASS-338-309 ..... c 27 N84-33589 *
US-PATENT-CLASS-338-32S ..... c 33 N76-13320 *
US-PATENT-CLASS-338-320 ..... c 33 N74-14935 *
US-PATENT-CLASS-338-36 ..... c 35 N76-17359 *
US-PATENT-CLASS-338-5 ..... c 32 N71-15974 *
US-PATENT-CLASS-338-5 ..... c 52 N74-27864 *
US-PATENT-CLASS-338-64 ..... c 09 N71-21583 *
US-PATENT-CLASS-338-6 ..... c 35 N76-14430 *
US-PATENT-CLASS-338-6 ..... c 52 N76-29895 *
US-PATENT-CLASS-338-75 ..... c 37 N75-13265 *
US-PATENT-CLASS-338-82 ..... c 09 N71-20842 *
US-PATENT-CLASS-338-89 ..... c 35 N74-32877 *
US-PATENT-CLASS-338-97 ..... c 37 N75-13265 *
US-PATENT-CLASS-338-99 ..... c 35 N78-17359 *
US-PATENT-CLASS-339-143C .... c 33 N76-16332 *
US-PATENT-CLASS-339-143R .... c 09 N72-25256 *
US-PATENT-CLASS-339-147R .... c 09 N72-25256 *
US-PATENT-CLASS-339-150 ..... c 09 N89-21470 * #
US-PATENT-CLASS-339-17M ..... c 37 N76-27567 *
US-PATENT-CLASS-339-17R ..... c 15 N71-29133 *
US-PATENT-CLASS-339-176MF . c 09 N72-28225 *
US-PATENT-CLASS-339-176M .... c 15 N72-17455 *
US-PATENT-CLASS-339-176 ..... c 09 N70-34596 *
US-PATENT-CLASS-339-176 ..... c 09 N70-36494 *
US-PATENT-CLASS-339-177 ..... c 09 N71-20851 *
US-PATENT-CLASS-339-17 ..... c 14 N89-27431 * #
US-PATENT-CLASS-339-17 ..... c 15 N71-17685 *
US-PATENT-CLASS-339-17 ..... c 09 N71-26133 *
US-PATENT-CLASS-339-18C ..... c 37 N76-27567 *
US-PATENT-CLASS-339-198R .... c 33 N76-16332 *
US-PATENT-CLASS-339-216M .... c 09 N72-28225 *
US-PATENT-CLASS-339-242 ..... c 33 N76-16332 *
US-PATENT-CLASS-339-252R .... c 52 N77-14738 *
US-PATENT-CLASS-339-258RR . c 33 N84-14423 *
US-PATENT-CLASS-339-262RR . c 33 N84-14423 *
US-PATENT-CLASS-339-275R .... c 33 N76-16332 *
US-PATENT-CLASS-339-275T .... c 09 N72-20200 *
US-PATENT-CLASS-339-276T .... c 09 N72-20200 *
US-PATENT-CLASS-339-278M .... c 15 N72-17455 *
US-PATENT-CLASS-339-3R ..... c 07 N83-20944 *
US-PATENT-CLASS-339-45M ..... c 15 N72-25450 *
US-PATENT-CLASS-339-46 ..... c 15 N72-17455 *
US-PATENT-CLASS-339-5R ..... c 07 N83-20944 *
US-PATENT-CLASS-339-5 ..... c 15 N71-23049 *
US-PATENT-CLASS-339-64M ..... c 33 N84-14423 *
US-PATENT-CLASS-339-75MP .... c 09 N72-28225 *
US-PATENT-CLASS-339-91B ..... c 15 N72-25450 *
US-PATENT-CLASS-339-91 ..... c 09 N89-21927 * #
US-PATENT-CLASS-339-94M ..... c 09 N72-28225 *
US-PATENT-CLASS-339-95 ..... c 09 N89-39734 * #
US-PATENT-CLASS-339.12R ..... c 52 N77-25772 *
US-PATENT-CLASS-34-155 ..... c 14 N73-28489 *
US-PATENT-CLASS-34-15 ..... c 26 N78-24365 *
US-PATENT-CLASS-34-160 ..... c 14 N73-28489 *
US-PATENT-CLASS-34-162 ..... c 14 N73-28489 *
US-PATENT-CLASS-34-162 ..... c 35 N74-15831 *
US-PATENT-CLASS-34-57A ..... c 35 N83-24828 *
US-PATENT-CLASS-340-12R ..... c 35 N74-16135 *
US-PATENT-CLASS-340-12R ..... c 46 N79-23555 *
US-PATENT-CLASS-340-146.1AL c 08 N72-25210 *
US-PATENT-CLASS-340-146.1AL c 08 N73-12175 *
US-PATENT-CLASS-340-146.1AL c 32 N77-12240 *
US-PATENT-CLASS-340-146.1AQ c 08 N73-12177 *
US-PATENT-CLASS-340-146.1AQ c 32 N74-32598 *
US-PATENT-CLASS-340-146.1AQ c 32 N77-12240 *
US-PATENT-CLASS-340-146.1AV c 08 N73-12177 *
US-PATENT-CLASS-340-146.1AV c 32 N77-12240 *
US-PATENT-CLASS-340-146.1AX c 32 N79-10263 *
US-PATENT-CLASS-340-146.1C . c 07 N73-20176 *
US-PATENT-CLASS-340-146.1E . c 32 N79-10263 *
US-PATENT-CLASS-340-146.1 ... c 09 N71-18643 *
US-PATENT-CLASS-340-146.1 ... c 08 N71-22749 *
US-PATENT-CLASS-340-146.1 ... c 10 N71-26103 *
US-PATENT-CLASS-340-146.1 ... c 08 N71-27255 *
US-PATENT-CLASS-340-146.1 ... c 08 N72-22167 *
US-PATENT-CLASS-340-146.1 ... c 08 N72-25207 *
US-PATENT-CLASS-340-146.1 ... c 07 N73-13149 *
US-PATENT-CLASS-340-146.2 ... c 08 N71-12505 *
US-PATENT-CLASS-340-146.2 ... c 08 N71-23295 *
US-PATENT-CLASS-340-146.3H . c 74 N81-19896 *
US-PATENT-CLASS-340-146.3P . c 43 N77-10584 *
US-PATENT-CLASS-340-146.3Q . c 43 N77-10584 *
US-PATENT-CLASS-340-146.3S . c 74 N81-19896 *
US-PATENT-CLASS-340-146.3Y . c 74 N81-19896 *
US-PATENT-CLASS-340-147C ... c 60 N76-14818 *
US-PATENT-CLASS-340-147R ... c 07 N73-20176 *
US-PATENT-CLASS-340-147R ... c 60 N76-14818 *
US-PATENT-CLASS-340-147SY .. c 17 N76-22245 *
US-PATENT-CLASS-340-147 ..... c 09 N70-33182 *
US-PATENT-CLASS-340-147 ..... c 09 N70-38998 *
US-PATENT-CLASS-340-15.5QC c 14 N73-26432 *
US-PATENT-CLASS-340-150 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-151 ..... c 33 N74-27862 *

US-PATENT-CLASS-340-163 ..... c 07 N73-20176 *
US-PATENT-CLASS-340-164 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-166 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-166 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-167 ..... c 07 N72-25173 *
US-PATENT-CLASS-340-171 ..... c 09 N72-22202 *
US-PATENT-CLASS-340-171 ..... c 16 N73-16536 *
US-PATENT-CLASS-340-172.5 .... c 08 N69-21926 * #
US-PATENT-CLASS-340-172.5 .... c 09 N69-24333 * #
US-PATENT-CLASS-340-172.5 .... c 08 N71-12502 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-12506 *
US-PATENT-CLASS-340-172.5 .... c 31 N71-15566 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-19268 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-22707 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-22710 *
US-PATENT-CLASS-340-172.5 .... c 07 N71-24624 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-27255 *
US-PATENT-CLASS-340-172.5 .... c 07 N72-25172 *
US-PATENT-CLASS-340-172.5 .... c 08 N72-25207 *
US-PATENT-CLASS-340-172.5 .... c 09 N72-25248 *
US-PATENT-CLASS-340-172.5 .... c 08 N73-13187 *
US-PATENT-CLASS-340-172.5 .... c 08 N73-26178 *
US-PATENT-CLASS-340-172.5 .... c 60 N76-18800 *
US-PATENT-CLASS-340-172.5 .... c 60 N76-21914 *
US-PATENT-CLASS-340-172.5 .... c 60 N77-12721 *
US-PATENT-CLASS-340-172.5 .... c 60 N77-14751 *
US-PATENT-CLASS-340-172.5 .... c 60 N77-19760 *
US-PATENT-CLASS-340-173.2 .... c 08 N72-21198 *
US-PATENT-CLASS-340-173CA .. c 33 N75-31331 *
US-PATENT-CLASS-340-173CR .. c 60 N74-12888 *
US-PATENT-CLASS-340-173LM .. c 60 N74-12888 *
US-PATENT-CLASS-340-173LM .. c 60 N78-10709 *
US-PATENT-CLASS-340-173LS .. c 08 N72-21198 *
US-PATENT-CLASS-340-173LS .. c 36 N75-19652 *
US-PATENT-CLASS-340-173 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-174.1L .. c 35 N74-11283 *
US-PATENT-CLASS-340-174.1M . c 36 N74-13205 *
US-PATENT-CLASS-340-174.1M . c 35 N78-29421 *
US-PATENT-CLASS-340-174.1M . c 35 N79-16246 *
US-PATENT-CLASS-340-174.1R . c 21 N73-13644 *
US-PATENT-CLASS-340-174.1 .... c 08 N71-21042 *
US-PATENT-CLASS-340-174.1 .... c 07 N71-23001 *
US-PATENT-CLASS-340-174.1 .... c 08 N71-27210 *
US-PATENT-CLASS-340-174AG . c 23 N72-17747 *
US-PATENT-CLASS-340-174CS .. c 08 N72-21199 *
US-PATENT-CLASS-340-174CT .. c 23 N72-17747 *
US-PATENT-CLASS-340-174GA . c 23 N72-17747 *
US-PATENT-CLASS-340-174LC .. c 08 N72-21199 *
US-PATENT-CLASS-340-174MA . c 24 N75-13032 *
US-PATENT-CLASS-340-174M .... c 08 N72-21199 *
US-PATENT-CLASS-340-174SC .. c 23 N72-17747 *
US-PATENT-CLASS-340-174SR .. c 08 N72-21199 *
US-PATENT-CLASS-340-174YC .. c 36 N74-13205 *
US-PATENT-CLASS-340-174YC .. c 35 N78-29421 *
US-PATENT-CLASS-340-174 ..... c 08 N71-12504 *
US-PATENT-CLASS-340-174 ..... c 09 N71-12515 *
US-PATENT-CLASS-340-174 ..... c 08 N71-18595 *
US-PATENT-CLASS-340-174 ..... c 08 N71-18694 *
US-PATENT-CLASS-340-174 ..... c 10 N71-23033 *
US-PATENT-CLASS-340-174 ..... c 10 N71-26418 *
US-PATENT-CLASS-340-174 ..... c 10 N71-26434 *
US-PATENT-CLASS-340-174 ..... c 08 N71-28925 *
US-PATENT-CLASS-340-174 ..... c 10 N71-29135 *
US-PATENT-CLASS-340-177VA .. c 08 N80-18036 *
US-PATENT-CLASS-340-177 ..... c 09 N72-17153 *
US-PATENT-CLASS-340-182 ..... c 33 N74-27862 *
US-PATENT-CLASS-340-183 ..... c 52 N74-26625 *
US-PATENT-CLASS-340-189M .... c 17 N76-29347 *
US-PATENT-CLASS-340-196 ..... c 14 N70-33179 *
US-PATENT-CLASS-340-198 ..... c 07 N71-11298 *
US-PATENT-CLASS-340-200 ..... c 33 N74-27862 *
US-PATENT-CLASS-340-200 ..... c 33 N77-31404 *
US-PATENT-CLASS-340-203 ..... c 09 N72-22202 *
US-PATENT-CLASS-340-203 ..... c 52 N74-26625 *
US-PATENT-CLASS-340-206 ..... c 17 N76-29347 *
US-PATENT-CLASS-340-207P .... c 17 N76-22245 *
US-PATENT-CLASS-340-207R .... o 52 N74-26625 *
US-PATENT-CLASS-340-207 ..... c 07 N73-25160 *
US-PATENT-CLASS-340-210 ..... c 03 N72-20031 *
US-PATENT-CLASS-340-213.1 .... c 10 N71-19417 *
US-PATENT-CLASS-340-213R .... c 54 N78-32720 *
US-PATENT-CLASS-340-213 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-223 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-224 ..... c 37 N77-19458 *
US-PATENT-CLASS-340-227R .... c 14 N72-25412 *
US-PATENT-CLASS-340-227 ..... c 10 N71-16058 *
US-PATENT-CLASS-340-227 ..... c 14 N71-27186 *
US-PATENT-CLASS-340-228.2 .... c 10 N72-17173 *
US-PATENT-CLASS-340-2265 .... c 14 N73-16484 *
US-PATENT-CLASS-340-233 ..... c 14 N71-25901 *
US-PATENT-CLASS-340-235 ..... c 10 N71-26334 *
US-PATENT-CLASS-340-2375 .... c 45 N76-17856 *
US-PATENT-CLASS-340-240 ..... c 09 N72-27227 *
US-PATENT-CLASS-340-242 ..... c 35 N75-19812 *
US-PATENT-CLASS-340-248 ..... c 10 N71-27338 *
US-PATENT-CLASS-340-258R .... c 07 N73-25160 *

US-PATENT-CLASS-340-258 ..... c 10 N72-28240 *
US-PATENT-CLASS-340-25 ..... c 14 N73-16483 *
US-PATENT-CLASS-340-262 ..... c 54 N78-32720 *
US-PATENT-CLASS-340-26 ..... c 21 N72-22619 *
US-PATENT-CLASS-340-26 ..... c 04 N82-16059 *
US-PATENT-CLASS-340-27AT .... c 21 N73-14692 *
US-PATENT-CLASS-340-27NA .... c 21 N73-13643 *
US-PATENT-CLASS-340-27NA .... c 06 N82-16075 *
US-PATENT-CLASS-340-27R ..... c 14 N73-16483 *
US-PATENT-CLASS-340-27R ..... c 14 N73-20474 *
US-PATENT-CLASS-340-27SS .... c 35 N78-14364 *
US-PATENT-CLASS-340-271 ..... c 35 N77-30436 *
US-PATENT-CLASS-340-277 ..... c 10 N73-30205 *
US-PATENT-CLASS-340-279 ..... c 05 N72-16015 *
US-PATENT-CLASS-340-279 ..... c 10 N73-30205 *
US-PATENT-CLASS-340-279 ..... c 54 N78-32720 *
US-PATENT-CLASS-340-285 ..... c 14 N71-25901 *
US-PATENT-CLASS-340-285 ..... c 54 N78-32720 *
US-PATENT-CLASS-340-309.1 .... c 54 N78-32720 *
US-PATENT-CLASS-340-309.4 .... c 33 N81-14221 *
US-PATENT-CLASS-340-310A .... c 33 N81-14221 *
US-PATENT-CLASS-340-310R .... c 33 N81-14221 *
US-PATENT-CLASS-340-324AD .. c 33 N75-19517 *
US-PATENT-CLASS-340-324A .... c 09 N72-25248 *
US-PATENT-CLASS-340-324R .... c 26 N72-25680 *
US-PATENT-CLASS-340-324 ..... c 08 N71-12507 *
US-PATENT-CLASS-340-324 ..... c 09 N71-33519 *
US-PATENT-CLASS-340-332 ..... c 09 N72-25250 *
US-PATENT-CLASS-340-336 ..... c 09 N71-33519 *
US-PATENT-CLASS-340-33 ..... c 21 N73-13643 *
US-PATENT-CLASS-340-347AD .. c 14 N71-26991 *
US-PATENT-CLASS-340-347AD .. c 09 N72-21200 *
US-PATENT-CLASS-340-347AD .. c 08 N72-22163 *
US-PATENT-CLASS-340-347AD .. c 08 N72-22166 *
US-PATENT-CLASS-340-347AD .. c 08 N72-31226 *
US-PATENT-CLASS-340-347AD .. c 08 N73-20217 *
US-PATENT-CLASS-340-347AD .. c 35 N74-17685 *
US-PATENT-CLASS-340-347AD .. c 35 N74-32877 *
US-PATENT-CLASS-340-347AD .. c 33 N76-18345 *
US-PATENT-CLASS-340-347AD .. c 60 N77-32731 *
US-PATENT-CLASS-340-347CC .. c 31 N86-29065 *
US-PATENT-CLASS-340-347DA .. c 08 N71-27057 *
US-PATENT-CLASS-340-347DA .. c 08 N72-20178 *
US-PATENT-CLASS-340-347DA .. c 08 N72-25206 *
US-PATENT-CLASS-340-347DA .. c 08 N73-32081 *
US-PATENT-CLASS-340-347DD .. c 10 N71-33407 *
US-PATENT-CLASS-340-347DD .. c 08 N72-18184 *
US-PATENT-CLASS-340-347DD .. c 08 N72-20178 *
US-PATENT-CLASS-340-347DD .. c 08 N72-21197 *
US-PATENT-CLASS-340-347DD .. c 08 N73-12176 *
US-PATENT-CLASS-340-347DD .. c 60 N76-23850 *
US-PATENT-CLASS-340-347DD .. c 32 N77-12239 *
US-PATENT-CLASS-340-347DD .. c 60 N78-17691 *
US-PATENT-CLASS-340-347DD .. c 60 N79-20751 *
US-PATENT-CLASS-340-347DD .. c 33 N82-26570 *
US-PATENT-CLASS-340-347DD .. c 32 N86-27513 *
US-PATENT-CLASS-340-347P ..... c 60 N76-23850 *
US-PATENT-CLASS-340-347P ..... c 35 N77-30436 *
US-PATENT-CLASS-340-347R ..... c 08 N72-22165 *
US-PATENT-CLASS-340-347SH .. c 33 N77-31404 *
US-PATENT-CLASS-340-347SY .. c 62 N76-31946 *
US-PATENT-CLASS-340-347SY .. c 35 N77-30436 *
US-PATENT-CLASS-340-347SY .. c 31 N86-29055 *
US-PATENT-CLASS-340-347 ..... c 08 N70-35423 *
US-PATENT-CLASS-340-347 ..... c 08 N70-40125 *
US-PATENT-CLASS-340-347 ..... c 08 N71-12501 *
US-PATENT-CLASS-340-347 ..... c 08 N71-18594 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19435 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19544 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19687 *
US-PATENT-CLASS-340-347 ..... c 08 N71-24650 *
US-PATENT-CLASS-340-347 ..... c 10 N71-25917 *
US-PATENT-CLASS-340-347 ..... c 10 N71-26544 *
US-PATENT-CLASS-340-347 ..... c 08 N73-28045 *
US-PATENT-CLASS-340-348 ..... c 08 N72-22167 *
US-PATENT-CLASS-340-38P ..... c 66 N76-19888 *
US-PATENT-CLASS-340-403 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-407 ..... c 71 N74-21014 *
US-PATENT-CLASS-340-407 ..... c 82 N87-29372 *
US-PATENT-CLASS-340-412 ..... c 10 N71-24798 *
US-PATENT-CLASS-340-415 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-418 ..... c 14 N73-16484 *
US-PATENT-CLASS-340-5C ..... c 14 N73-27379 *
US-PATENT-CLASS-340-5H ..... c 32 N77-21267 *
US-PATENT-CLASS-340-5R ..... c 35 N74-16135 *
US-PATENT-CLASS-340-518 ..... c 35 N83-34272 *
US-PATENT-CLASS-340-555 ..... c 74 N85-22139 *
US-PATENT-CLASS-340-566 ..... c 35 N83-34272 *
US-PATENT-CLASS-340-57 ..... c 14 N71-15620 *
US-PATENT-CLASS-340-580 ..... c 35 N88-29149 *
US-PATENT-CLASS-340-602 ..... c 33 N80-23559 *
US-PATENT-CLASS-340-604 ..... c 33 N80-23559 *
US-PATENT-CLASS-340-605 ..... c 25 N86-27431 *
US-PATENT-CLASS-340-650 ..... c 33 N79-18193 *
US-PATENT-CLASS-340-664 ..... c 33 N79-18193 *
US-PATENT-CLASS-340-692 ..... c 76 N90-24168 *

US-PATENT-CLASS-340-705 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-9LF ..... c 71 N79-23753 *
US-PATENT-CLASS-340-8R ..... c 35 N74-16135 *
US-PATENT-CLASS-340-825.21 .. c 60 N84-28492 *
US-PATENT-CLASS-340-825.5 .... c 60 N84-28492 *
US-PATENT-CLASS-340-825.5 .... c 17 N87-16663 *
US-PATENT-CLASS-340-825.69 .. c 35 N90-23707 *
US-PATENT-CLASS-340-825.69 .. c 33 N82-29538 *
US-PATENT-CLASS-340-870.13 .. c 35 N84-22934 *
US-PATENT-CLASS-340-870.18 .. c 17 N87-16663 *
US-PATENT-CLASS-340-870.24 .. c 33 N81-14221 *
US-PATENT-CLASS-340-905 ..... c 35 N84-33789 *
US-PATENT-CLASS-340-945 ..... c 06 N87-22678 *
US-PATENT-CLASS-340-967 ..... c 08 N87-20999 *
US-PATENT-CLASS-340-968 ..... c 06 N86-27280 *
US-PATENT-CLASS-340-971 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-971 ..... c 06 N87-22678 *
US-PATENT-CLASS-340-975 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-975 ..... c 06 N87-22678 *
US-PATENT-CLASS-340-978 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-97 ..... c 21 N73-13643 *
US-PATENT-CLASS-340-980 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-988 ..... c 35 N84-33789 *
US-PATENT-CLASS-342-105 ..... c 32 N90-20280 *
US-PATENT-CLASS-342-114 ..... c 32 N90-20280 *
US-PATENT-CLASS-342-125 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-127 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-165 ..... c 32 N89-26672 *
US-PATENT-CLASS-342-195 ..... c 33 N89-14384 *
US-PATENT-CLASS-342-195 ..... c 32 N90-20280 *
US-PATENT-CLASS-342-1 ..... c 32 N89-26672 *
US-PATENT-CLASS-342-374 ..... c 32 N89-11961 *
US-PATENT-CLASS-342-375 ..... c 32 N89-11961 *
US-PATENT-CLASS-342-43 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-51 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-5 ..... c 32 N89-26672 *
US-PATENT-CLASS-343-DIG.2 .... c 07 N73-24178 *
US-PATENT-CLASS-343-DIG.2 .... c 33 N74-20860 *
US-PATENT-CLASS-343-DIG.2 .... c 37 N86-25791 *
US-PATENT-CLASS-343-DIG.2 .... c 32 N89-25363 *
US-PATENT-CLASS-343-DIG.3 .... c 09 N72-12136 *
US-PATENT-CLASS-343-DIG2 ..... c 07 N83-20944 *
US-PATENT-CLASS-343-100AP .. c 33 N83-36355 *
US-PATENT-CLASS-343-100CL .. c 32 N77-32342 *
US-PATENT-CLASS-343-100CL .. c 32 N79-14268 *
US-PATENT-CLASS-343-100CL .. c 32 N81-29308 *
US-PATENT-CLASS-343-100CL .. c 32 N83-18975 *
US-PATENT-CLASS-343-100CL .. c 32 N83-19949 *
US-PATENT-CLASS-343-100ME . c 14 N72-28437 *
US-PATENT-CLASS-343-100ME . c 14 N73-26432 *
US-PATENT-CLASS-343-100ME . c 46 N80-14603 *
US-PATENT-CLASS-343-100ME . c 35 N30-18359 *
US-PATENT-CLASS-343-100ME . c 46 N82-12685 *
US-PATENT-CLASS-343-100ME . c 06 N83-10040 *
US-PATENT-CLASS-343-100PE .. c 32 N75-24982 *
US-PATENT-CLASS-343-100PE .. c 33 N81-26359 *
US-PATENT-CLASS-343-100PE .. c 46 N82-12685 *
US-PATENT-CLASS-343-100PE .. c 35 N82-15381 *
US-PATENT-CLASS-343-100R .... c 10 N73-16206 *
US-PATENT-CLASS-343-100R .... c 33 N80-18287 *
US-PATENT-CLASS-343-100SA .. c 10 N73-16206 *
US-PATENT-CLASS-343-100SA .. c 33 N74-20860 *
US-PATENT-CLASS-343-100SA .. c 17 N76-21250 *
US-PATENT-CLASS-343-100SA .. c 32 N80-29579 *
US-PATENT-CLASS-343-100ST .. c 07 N72-21118 *
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US-PATENT-CLASS-343-100ST .. c 17 N76-21250 *
US-PATENT-CLASS-343-100ST .. c 32 N77-20289 *
US-PATENT-CLASS-343-100ST .. c 33 N80-18287 *
US-PATENT-CLASS-343-100TD .. c 32 N79-24210 *
US-PATENT-CLASS-343-100TD .. c 32 N81-14185 *
US-PATENT-CLASS-343-100 ..... c 10 N71-18722 *
US-PATENT-CLASS-343-100 ..... c 07 N71-19854 *
US-PATENT-CLASS-343-100 ..... c 30 N71-23723 *
US-PATENT-CLASS-343-100 ..... c 07 N71-24621 *
US-PATENT-CLASS-343-100 ..... c 09 N71-24804 *
US-PATENT-CLASS-343-100 ..... c 31 N71-24813 *
US-PATENT-CLASS-343-100 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-100 ..... c 07 N71-28900 *
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US-PATENT-CLASS-343-105R .... c 04 N84-27713 *
US-PATENT-CLASS-343-108R .... c 04 N74-13420 *
US-PATENT-CLASS-343-10 ..... c 32 N77-32342 *
US-PATENT-CLASS-343-11R ..... c 09 N73-12211 *
US-PATENT-CLASS-343-11VB .... c 09 N73-12211 *
US-PATENT-CLASS-343-112CA .. c 21 N73-13643 *
US-PATENT-CLASS-343-112CA .. c 21 N73-30641 *
US-PATENT-CLASS-343-112CA .. c 03 N75-30132 *
US-PATENT-CLASS-343-112D .... c 14 N72-28437 *
US-PATENT-CLASS-343-112D .... c 32 N75-26194 *
US-PATENT-CLASS-343-112D .... c 46 N80-14603 *
US-PATENT-CLASS-343-112R .... c 09 N73-32110 *
US-PATENT-CLASS-343-112R .... c 17 N78-17140 *
US-PATENT-CLASS-343-112R .... c 04 N80-32359 *
US-PATENT-CLASS-343-112R .... c 32 N81-27341 *

US-PATENT-CLASS-343-112TC .. c 17 N78-21250 *
US-PATENT-CLASS-343-112 ..... c 21 N71-13958 *
US-PATENT-CLASS-343-112 ..... c 02 N71-19287 *
US-PATENT-CLASS-343-112 ..... c 21 N71-24948 *
US-PATENT-CLASS-343-113R .... c 09 N73-32110 *
US-PATENT-CLASS-343-113R .... c 44 N78-28594 *
US-PATENT-CLASS-343-113 ..... c 10 N71-21473 *
US-PATENT-CLASS-343-113 ..... c 07 N71-24625 *
US-PATENT-CLASS-343-117R .... c 32 N79-13214 *
US-PATENT-CLASS-343-117 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-118 ..... c 32 N79-13214 *
US-PATENT-CLASS-343-119 ..... c 44 N78-28594 *
US-PATENT-CLASS-343-12R ..... c 08 N72-25209 *
US-PATENT-CLASS-343-12 ..... c 21 N70-41930 *
US-PATENT-CLASS-343-12 ..... c 10 N72-20224 *
US-PATENT-CLASS-343-13-R .... c 74 N85-34629 *
US-PATENT-CLASS-343-13 ..... c 09 N71-18598 *
US-PATENT-CLASS-343-14 ..... c 07 N70-41680 *
US-PATENT-CLASS-343-14 ..... c 08 N72-25209 *
US-PATENT-CLASS-343-14 ..... c 14 N73-25461 *
US-PATENT-CLASS-343-14 ..... c 32 N79-14267 *
US-PATENT-CLASS-343-14 ..... c 31 N79-28370 *
US-PATENT-CLASS-343-16M .... c 10 N72-22235 *
US-PATENT-CLASS-343-16M .... c 44 N78-28594 *
US-PATENT-CLASS-343-16 ..... c 09 N71-20864 *
US-PATENT-CLASS-343-16 ..... c 10 N71-21483 *
US-PATENT-CLASS-343-17.1PF . c 32 N82-23376 *
US-PATENT-CLASS-343-17.2-PC c 32 N85-34327 *
US-PATENT-CLASS-343-17.2PC . c 35 N79-10391 *
US-PATENT-CLASS-343-17.2 .... c 07 N70-36011 *
US-PATENT-CLASS-343-17.5 .... c 14 N73-25461 *
US-PATENT-CLASS-343-17.5 .... c 32 N75-15854 *
US-PATENT-CLASS-343-17.5 .... c 32 N84-22820 *
US-PATENT-CLASS-343-17.7 .... c 07 N71-12391 *
US-PATENT-CLASS-343-17.7 .... c 44 N74-19870 *
US-PATENT-CLASS-343-17.7 .... c 32 N77-31350 *
US-PATENT-CLASS-343-17.7 .... c 32 N79-11265 *
US-PATENT-CLASS-343-17.7 .... c 32 N84-27951 *
US-PATENT-CLASS-343-17.7 .... c 33 N85-21493 *
US-PATENT-CLASS-343-176 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-176 ..... c 32 N76-14321 *
US-PATENT-CLASS-343-179 ..... c 07 N72-11149 *
US-PATENT-CLASS-343-179 ..... c 07 N73-20174 *
US-PATENT-CLASS-343-179 ..... c 32 N78-15323 *
US-PATENT-CLASS-343-179 ..... c 32 N79-20296 *
US-PATENT-CLASS-343-18A ..... c 32 N80-14281 *
US-PATENT-CLASS-343-18B ..... c 32 N74-12912 *
US-PATENT-CLASS-343-18B ..... c 32 N77-21267 *
US-PATENT-CLASS-343-18B ..... c 43 N80-18498 *
US-PATENT-CLASS-343-18D ..... c 43 N80-18498 *
US-PATENT-CLASS-343-18 ..... c 31 N70-37981 *
US-PATENT-CLASS-343-18 ..... c 07 N70-40063 *
US-PATENT-CLASS-343-18 ..... c 30 N70-40309 *
US-PATENT-CLASS-343-18 ..... c 07 N70-41678 *
US-PATENT-CLASS-343-200 ..... c 07 N73-16121 *
US-PATENT-CLASS-343-204 ..... c 07 N73-26118 *
US-PATENT-CLASS-343-225 ..... c 17 N78-17140 *
US-PATENT-CLASS-343-352 ..... c 43 N85-21723 *
US-PATENT-CLASS-343-352 ..... c 46 N85-21846 *
US-PATENT-CLASS-343-356 ..... c 04 N84-22546 *
US-PATENT-CLASS-343-357 ..... c 04 N84-22546 *
US-PATENT-CLASS-343-357 ..... c 04 N86-27270 *
US-PATENT-CLASS-343-376 ..... c 33 N85-21493 *
US-PATENT-CLASS-343-418 ..... c 04 N86-27270 *
US-PATENT-CLASS-343-460 ..... c 46 N85-21846 *
US-PATENT-CLASS-343-5-CD .... c 43 N86-19711 *
US-PATENT-CLASS-343-5-CM .... c 32 N84-34651 *
US-PATENT-CLASS-343-5-CM .... c 32 N85-34327 *
US-PATENT-CLASS-343-5-CM .... c 43 N86-19711 *
US-PATENT-CLASS-343-5-DP .... c 32 N84-34651 *
US-PATENT-CLASS-343-5-FT .... c 32 N84-34651 *
US-PATENT-CLASS-343-5-VQ .... c 43 N86-19711 *
US-PATENT-CLASS-343-5-W ..... c 32 N85-34327 *
US-PATENT-CLASS-343-5CM ..... c 07 N72-21118 *
US-PATENT-CLASS-343-5CM ..... c 32 N77-21267 *
US-PATENT-CLASS-343-5CM ..... c 32 N77-32342 *
US-PATENT-CLASS-343-5CM ..... c 35 N79-10391 *
US-PATENT-CLASS-343-5CM ..... c 32 N79-14268 *
US-PATENT-CLASS-343-5CM ..... c 43 N80-18498 *
US-PATENT-CLASS-343-5CM ..... c 32 N82-12297 *
US-PATENT-CLASS-343-5CM ..... c 32 N83-18975 *
US-PATENT-CLASS-343-5CM ..... c 32 N83-19968 *
US-PATENT-CLASS-343-5CM ..... c 32 N83-31918 *
US-PATENT-CLASS-343-5DP ..... c 07 N72-11149 *
US-PATENT-CLASS-343-5DP ..... c 09 N73-12211 *
US-PATENT-CLASS-343-5DP ..... c 32 N77-32342 *
US-PATENT-CLASS-343-5DP ..... c 32 N82-23376 *
US-PATENT-CLASS-343-5GC ..... c 32 N75-24982 *
US-PATENT-CLASS-343-5MM ..... c 32 N77-21267 *
US-PATENT-CLASS-343-5NA ..... c 31 N79-28370 *
US-PATENT-CLASS-343-5W ..... c 35 N79-10391 *
US-PATENT-CLASS-343-5W ..... c 43 N80-18498 *
US-PATENT-CLASS-343-5W ..... c 46 N85-21846 *
US-PATENT-CLASS-343-6.8R .... c 32 N77-20289 *
US-PATENT-CLASS-343-6.5R .... c 07 N72-12080 *
US-PATENT-CLASS-343-6.5R .... c 07 N72-21118 *
US-PATENT-CLASS-343-6.5R .... c 07 N72-25171 *
US-PATENT-CLASS-343-6.5R .... c 08 N72-25209 *
US-PATENT-CLASS-343-6.5R .... c 07 N73-25161 *
US-PATENT-CLASS-343-6.5R .... c 21 N73-30641 *
US-PATENT-CLASS-343-6.5R .... c 32 N74-12912 *
US-PATENT-CLASS-343-6.5R .... c 32 N75-15854 *
US-PATENT-CLASS-343-6.5R .... c 03 N75-30132 *
US-PATENT-CLASS-343-6.5R .... c 32 N77-20289 *
US-PATENT-CLASS-343-6.5SS ... c 32 N74-12912 *
US-PATENT-CLASS-343-6.5 ..... c 21 N71-11766 *
US-PATENT-CLASS-343-6.5 ..... c 10 N71-23099 *
US-PATENT-CLASS-343-6.8-R ... c 04 N86-19304 *
US-PATENT-CLASS-343-6.8R .... c 07 N72-12080 *
US-PATENT-CLASS-343-6.8R .... c 07 N73-25161 *
US-PATENT-CLASS-343-6.8R .... c 14 N73-25461 *
US-PATENT-CLASS-343-6R ..... c 32 N79-10264 *
US-PATENT-CLASS-343-6 ..... c 30 N71-16090 *
US-PATENT-CLASS-343-7.4 ..... c 10 N72-22235 *
US-PATENT-CLASS-343-7.4 ..... c 32 N79-13214 *
US-PATENT-CLASS-343-7.5 ..... c 07 N69-39974 * #
US-PATENT-CLASS-343-7.5 ..... c 09 N71-24595 *
US-PATENT-CLASS-343-7.5 ..... c 07 N72-11149 *
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US-PATENT-CLASS-343-7.5 ..... c 32 N82-23376 *
US-PATENT-CLASS-343-700MS ... c 32 N78-24391 *
US-PATENT-CLASS-343-700MS ... c 32 N80-32604 *
US-PATENT-CLASS-343-700MS ... c 32 N82-11336 *
US-PATENT-CLASS-343-703 ..... c 09 N71-13521 *
US-PATENT-CLASS-343-703 ..... c 07 N71-24614 *
US-PATENT-CLASS-343-705 ..... c 07 N70-38200 *
US-PATENT-CLASS-343-705 ..... c 07 N70-40202 *
US-PATENT-CLASS-343-705 ..... c 31 N71-10747 *
US-PATENT-CLASS-343-705 ..... c 03 N76-32140 *
US-PATENT-CLASS-343-706 ..... c 07 N72-21117 *
US-PATENT-CLASS-343-708 ..... c 09 N71-22888 *
US-PATENT-CLASS-343-708 ..... c 07 N71-22984 *
US-PATENT-CLASS-343-708 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-708 ..... c 09 N72-25247 *
US-PATENT-CLASS-343-708 ..... c 32 N74-20864 *
US-PATENT-CLASS-343-708 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-718 ..... c 09 N71-18720 *
US-PATENT-CLASS-343-720 ..... c 09 N72-12136 *
US-PATENT-CLASS-343-725 ..... c 07 N73-26013 *
US-PATENT-CLASS-343-727 ..... c 32 N81-14187 *
US-PATENT-CLASS-343-727 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-729 ..... c 07 N73-26013 *
US-PATENT-CLASS-343-730 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-754 ..... c 09 N73-19234 *
US-PATENT-CLASS-343-755 ..... c 33 N76-27472 *
US-PATENT-CLASS-343-755 ..... c 32 N81-25278 *
US-PATENT-CLASS-343-761 ..... c 33 N75-19516 *
US-PATENT-CLASS-343-761 ..... c 32 N76-21365 *
US-PATENT-CLASS-343-762 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-768 ..... c 10 N71-26142 *
US-PATENT-CLASS-343-769 ..... c 32 N74-20864 *
US-PATENT-CLASS-343-770 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-770 ..... c 33 N76-14372 *
US-PATENT-CLASS-343-771 ..... c 07 N71-28809 *
US-PATENT-CLASS-343-771 ..... c 07 N72-11148 *
US-PATENT-CLASS-343-771 ..... c 09 N72-21244 *
US-PATENT-CLASS-343-771 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-771 ..... c 09 N72-25247 *
US-PATENT-CLASS-343-771 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-772 ..... c 07 N72-20141 *
US-PATENT-CLASS-343-772 ..... c 32 N81-25278 *
US-PATENT-CLASS-343-773 ..... c 07 N72-20141 *
US-PATENT-CLASS-343-776 ..... c 07 N71-12396 *
US-PATENT-CLASS-343-777 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-777 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-777 ..... c 32 N89-11961 *
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US-PATENT-CLASS-343-779 ..... c 07 N71-11285 *
US-PATENT-CLASS-343-779 ..... c 10 N72-22235 *
US-PATENT-CLASS-343-779 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-779 ..... c 32 N76-15329 *
US-PATENT-CLASS-343-779 ..... c 33 N76-27472 *
US-PATENT-CLASS-343-779 ..... c 32 N89-11961 *
US-PATENT-CLASS-343-781CA .. c 32 N78-31321 *
US-PATENT-CLASS-343-781P .... c 46 N82-12685 *
US-PATENT-CLASS-343-781R .... c 32 N81-25278 *
US-PATENT-CLASS-343-781 ..... c 09 N70-35219 *
US-PATENT-CLASS-343-781 ..... c 09 N70-35382 *
US-PATENT-CLASS-343-781 ..... c 09 N70-35425 *
US-PATENT-CLASS-343-781 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-781 ..... c 32 N74-11000 *
US-PATENT-CLASS-343-781 ..... c 33 N75-19516 *
US-PATENT-CLASS-343-781 ..... c 32 N76-21365 *
US-PATENT-CLASS-343-782 ..... c 07 N73-14130 *
US-PATENT-CLASS-343-782 ..... c 32 N78-31321 *
US-PATENT-CLASS-343-784 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-786 ..... c 07 N71-15907 *
US-PATENT-CLASS-343-786 ..... c 07 N71-22750 *
US-PATENT-CLASS-343-786 ..... c 07 N71-26101 *
US-PATENT-CLASS-343-786 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-786 ..... c 07 N72-20141 *
US-PATENT-CLASS-343-786 ..... c 10 N72-22235 *
US-PATENT-CLASS-343-786 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-786 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-786 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-786 ..... c 32 N76-15330 *
US-PATENT-CLASS-343-786 ..... c 32 N76-21365 *
US-PATENT-CLASS-343-786 ..... c 32 N80-23524 *
US-PATENT-CLASS-343-786 ..... c 32 N80-29539 *
US-PATENT-CLASS-343-786 ..... c 32 N81-25278 *
US-PATENT-CLASS-343-789 ..... c 32 N81-14187 *
US-PATENT-CLASS-343-789 ..... c 32 N82-27558 *
US-PATENT-CLASS-343-795 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-797 ..... c 09 N71-24842 *
US-PATENT-CLASS-343-797 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-797 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-797 ..... c 07 N73-26013 *
US-PATENT-CLASS-343-797 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-797 ..... c 33 N76-14372 *
US-PATENT-CLASS-343-797 ..... c 32 N81-14187 *
US-PATENT-CLASS-343-799 ..... c 07 N71-27233 *
US PATENT-CLASS-343-803 ..... c 07 N73-26013 *
US-PATENT-CLASS-343-823 ..... c 07 N71-28979 *
US-PATENT-CLASS-343-830 ..... c 32 N80-32604 *
US-PATENT-CLASS-343-833 ..... c 31 N70-34135 *
US-PATENT-CLASS-343-837 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-837 ..... c 07 N73-14130 *
US-PATENT-CLASS-343-837 ..... c 33 N75-19516 *
US-PATENT-CLASS-343-837 ..... c 32 N76-15329 *
US-PATENT-CLASS-343-837 ..... c 32 N76-18295 *
US-PATENT-CLASS-343-837 ..... c 32 N78-31321 *
US-PATENT-CLASS-343-839 ..... c 09 N73-19234 *
US-PATENT-CLASS-343-840 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-840 ..... c 09 N72-12136 *
US-PATENT-CLASS-343-840 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-840 ..... c 32 N76-18295 *
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US-PATENT-CLASS-343-844 ..... c 32 N79-11264 *
US-PATENT-CLASS-343-844 ..... c 32 N80-28578 *
US-PATENT-CLASS-343-846 ..... c 33 N76-14372 *
US-PATENT-CLASS-343-846 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-853 ..... c 07 N72-11148 *
US-PATENT-CLASS-343-853 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-853 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-853 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-853 ..... c 10 N73-16206 *
US-PATENT-CLASS-343-853 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-853 ..... c 32 N74-20864 *
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US-PATENT-CLASS-343-854 ..... c 33 N76-27472 *
US-PATENT-CLASS-343-854 ..... c 32 N79-11264 *
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US-PATENT-CLASS-343-873 ..... c 07 N71-19493 *
US-PATENT-CLASS-343-873 ..... c 09 N72-25247 *
US-PATENT-CLASS-343-876 ..... c 32 N76-15329 *
US-PATENT-CLASS-343-876 ..... c 32 N85-29118 *
US-PATENT-CLASS-343-880 ..... c 07 N73-26117 *
US-PATENT-CLASS-343-880 ..... c 18 N80-14183 *
US-PATENT-CLASS-343-880 ..... c 32 N89-25383 *
US-PATENT-CLASS-343-881 ..... c 37 N86-25789 *
US-PATENT-CLASS-343-882 ..... c 33 N76-32457 *
US-PATENT-CLASS-343-882 ..... c 37 N86-25789 *
US-PATENT-CLASS-343-883 ..... c 07 N73-26117 *
US-PATENT-CLASS-343-883 ..... c 18 N80-14183 *
US-PATENT-CLASS-343-883 ..... c 37 N86-25791 *
US-PATENT-CLASS-343-884 ..... c 07 N71-27191 *
US-PATENT-CLASS-343-889 ..... c 07 N73-26117 *
US-PATENT-CLASS-343-893 ..... c 09 N72-21244 *
US-PATENT-CLASS-343-893 ..... c 07 N73-26013 *
US-PATENT-CLASS-343-895 ..... c 09 N73-19234 *
US-PATENT-CLASS-343-895 ..... c 07 N73-26117 *
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US-PATENT-CLASS-343-895 ..... c 32 N82-27558 *
US-PATENT-CLASS-343-9PS ..... c 32 N83-19968 *
US-PATENT-CLASS-343-9PS ..... c 32 N83-31918 *
US-PATENT-CLASS-343-9R ..... c 32 N84-22820 *
US-PATENT-CLASS-343-909 ..... c 32 N74-11000 *
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US-PATENT-CLASS-343-909 ..... c 33 N79-28416 *
US-PATENT-CLASS-343-909 ..... c 32 N80-14281 *
US-PATENT-CLASS-343-912 ..... c 07 N72-21117 *
US-PATENT-CLASS-343-912 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-912 ..... c 32 N76-18295 *
US-PATENT-CLASS-343-915 ..... c 31 N71-16102 *
US-PATENT-CLASS-343-915 ..... c 09 N71-20658 *
US-PATENT-CLASS-343-915 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-915 ..... c 07 N73-14130 *
US-PATENT-CLASS-343-915 ..... c 07 N73-24178 *
US-PATENT-CLASS-343-915 ..... c 32 N76-18295 *
US-PATENT-CLASS-343-915 ..... c 33 N76-32457 *
US-PATENT-CLASS-343-915 ..... c 32 N89-25383 *
US-PATENT-CLASS-343-9 ..... c 32 N75-15854 *
US-PATENT-CLASS-343-9 ..... c 32 N79-10264 *
US-PATENT-CLASS-346-107A .... c 14 N72-18411 *

US-PATENT-CLASS-348-107 ..... c 23 N71-23976 *
US-PATENT-CLASS-348-108 ..... c 35 N74-15831 *
US-PATENT-CLASS-348-110 ..... c 14 N73-32322 *
US-PATENT-CLASS-348-136 ..... c 21 N73-13644 *
US-PATENT-CLASS-348-138 ..... c 35 N74-15831 *
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US-PATENT-CLASS-348-1 ..... c 09 N72-21246 *
US-PATENT-CLASS-348-23 ..... c 14 N72-18411 *
US-PATENT-CLASS-348-24 ..... c 35 N74-15831 *
US-PATENT-CLASS-348-29 ..... c 09 N72-21246 *
US-PATENT-CLASS-348-33R ..... c 35 N74-32677 *
US-PATENT-CLASS-348-44 ..... c 09 N69-21467 * #
US-PATENT-CLASS-348-50 ..... c 14 N71-21006 *
US-PATENT-CLASS-348-74MD ... c 21 N73-13644 *
US-PATENT-CLASS-348-74MT .... c 35 N79-16248 *
US-PATENT-CLASS-348R ..... c 73 N77-18891 *
US-PATENT-CLASS-349 ..... c 25 N79-28253 *
US-PATENT-CLASS-35-10.2 ..... c 14 N71-15821 *
US-PATENT-CLASS-35-12C ..... c 14 N73-27377 *
US-PATENT-CLASS-35-12C ..... c 09 N75-15662 *
US-PATENT-CLASS-35-12C ..... c 74 N79-13855 *
US-PATENT-CLASS-35-12E ..... c 09 N74-30697 *
US-PATENT-CLASS-35-12E ..... c 09 N79-31229 *
US-PATENT-CLASS-35-12H ..... c 09 N79-31229 *
US-PATENT-CLASS-35-12N ..... c 09 N78-24280 *
US-PATENT-CLASS-35-12N ..... c 09 N79-19083 *
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US-PATENT-CLASS-35-12 ..... c 11 N71-18773 *
US-PATENT-CLASS-35-12 ..... c 11 N71-19494 *
US-PATENT-CLASS-35-12 ..... c 11 N71-21474 *
US-PATENT-CLASS-35-12 ..... c 18 N76-14186 *
US-PATENT-CLASS-35-17 ..... c 05 N71-24806 *
US-PATENT-CLASS-35-19 ..... c 10 N71-27365 *
US-PATENT-CLASS-35-22R ..... c 05 N73-13114 *
US-PATENT-CLASS-35-29 ..... c 11 N71-16028 *
US-PATENT-CLASS-35-29 ..... c 05 N71-28619 *
US-PATENT-CLASS-35-35A ..... c 71 N74-21014 *
US-PATENT-CLASS-35-45 ..... c 14 N70-35394 *
US-PATENT-CLASS-35-49 ..... c 12 N68-39888 * #
US-PATENT-CLASS-35-8 ..... c 05 N72-18015 *
US-PATENT-CLASS-350-100 ..... c 36 N77-25501 *
US-PATENT-CLASS-350-102 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-102 ..... c 36 N77-25501 *
US-PATENT-CLASS-350-138 ..... c 23 N72-27729 *
US-PATENT-CLASS-350-145 ..... c 74 N77-20882 *
US-PATENT-CLASS-350-147 ..... c 14 N72-27409 *
US-PATENT-CLASS-350-150 ..... c 26 N72-25680 *
US-PATENT-CLASS-350-150 ..... c 36 N76-18427 *
US-PATENT-CLASS-350-151 ..... c 36 N74-13205 *
US-PATENT-CLASS-350-151 ..... c 35 N78-29421 *
US-PATENT-CLASS-350-157 ..... c 74 N79-14801 *
US-PATENT-CLASS-350-159 ..... c 74 N78-17865 *
US-PATENT-CLASS-350-160R .... c 14 N72-25410 *
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US-PATENT-CLASS-350-160 ..... c 36 N76-18427 *
US-PATENT-CLASS-350-161 ..... c 26 N72-27784 *
US-PATENT-CLASS-350-161 ..... c 36 N75-31427 *
US-PATENT-CLASS-350-162.13 .. c 74 N89-14078 *
US-PATENT-CLASS-350-162R ... c 74 N80-21140 *
US-PATENT-CLASS-350-162SF .. c 23 N73-30666 *
US-PATENT-CLASS-350-162SF .. c 74 N78-31998 *
US-PATENT-CLASS-350-162SF .. c 74 N77-28932 *
US-PATENT-CLASS-350-162SF .. c 36 N77-32478 *
US-PATENT-CLASS-350-162 ..... c 14 N72-17323 *
US-PATENT-CLASS-350-163 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-165 ..... c 27 N78-31233 *
US-PATENT-CLASS-350-166 ..... c 44 N83-34448 *
US-PATENT-CLASS-350-168 ..... c 74 N85-23396 *
US-PATENT-CLASS-350-16 ..... c 14 N72-22444 *
US-PATENT-CLASS-350-170 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-170 ..... c 74 N83-10600 *
US-PATENT-CLASS-350-171 ..... c 23 N72-23695 *
US-PATENT-CLASS-350-171 ..... c 74 N83-17305 *
US-PATENT-CLASS-350-172 ..... c 74 N84-23248 *
US-PATENT-CLASS-350-173 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-173 ..... c 74 N83-36898 *
US-PATENT-CLASS-350-173 ..... c 74 N84-23248 *
US-PATENT-CLASS-350-174 ..... c 74 N77-20882 *
US-PATENT-CLASS-350-174 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-174 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-175E .... c 74 N80-27185 *
US-PATENT-CLASS-350-175FS .. c 14 N72-25414 *
US-PATENT-CLASS-350-175NG .. c 27 N78-31233 *
US-PATENT-CLASS-350-189 ..... c 23 N71-24857 *
US-PATENT-CLASS-350-199 ..... c 14 N73-30393 *
US-PATENT-CLASS-350-19 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-1 ..... c 23 N69-24332 * #
US-PATENT-CLASS-350-1 ..... c 07 N71-29065 *
US-PATENT-CLASS-350-1 ..... c 18 N72-12440 *
US-PATENT-CLASS-350-1 ..... c 24 N78-24363 *
US-PATENT-CLASS-350-1 ..... c 74 N79-15879 *

US-PATENT-CLASS-350-202 ..... c 23 N73-20741 *
US-PATENT-CLASS-350-202 ..... c 74 N77-28932 *
US-PATENT-CLASS-350-203 ..... c 14 N72-25409 *
US-PATENT-CLASS-350-204 ..... c 14 N73-30393 *
US-PATENT-CLASS-350-204 ..... c 74 N78-17866 *
US-PATENT-CLASS-350-211 ..... c 44 N76-14602 *
US-PATENT-CLASS-350-213 ..... c 14 N71-15622 *
US-PATENT-CLASS-350-226 ..... c 74 N80-27185 *
US-PATENT-CLASS-350-236 ..... c 74 N74-15095 *
US-PATENT-CLASS-350-23 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-253 ..... c 35 N77-27366 *
US-PATENT-CLASS-350-25 ..... c 74 N80-21138 *
US-PATENT-CLASS-350-269 ..... c 33 N74-20861 *
US-PATENT-CLASS-350-26 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-270 ..... c 70 N74-21300 *
US-PATENT-CLASS-350-275 ..... c 09 N71-19479 *
US-PATENT-CLASS-350-275-R ... c 74 N86-20125 *
US-PATENT-CLASS-350-276R .... c 74 N88-28732 *
US-PATENT-CLASS-350-285 ..... c 14 N71-15805 *
US-PATENT-CLASS-350-285 ..... c 14 N71-17662 *
US-PATENT-CLASS-350-285 ..... c 19 N71-26674 *
US-PATENT-CLASS-350-285 ..... c 15 N72-11386 *
US-PATENT-CLASS-350-285 ..... c 18 N73-33397 *
US-PATENT-CLASS-350-285 ..... c 74 N74-15095 *
US-PATENT-CLASS-350-285 ..... c 74 N80-21138 *
US-PATENT-CLASS-350-286 ..... c 07 N71-29065 *
US-PATENT-CLASS-350-288 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-288 ..... c 74 N83-10900 *
US-PATENT-CLASS-350-287 ..... c 15 N72-11386 *
US-PATENT-CLASS-350-287 ..... c 74 N83-13978 *
US-PATENT-CLASS-350-288 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-288 ..... c 12 N76-15189 *
US-PATENT-CLASS-350-288 ..... c 74 N77-28933 *
US-PATENT-CLASS-350-288 ..... c 44 N79-11471 *
US-PATENT-CLASS-350-288 ..... c 44 N79-24433 *
US-PATENT-CLASS-350-292 ..... c 35 N75-12273 *
US-PATENT-CLASS-350-292 ..... c 44 N79-14529 *
US-PATENT-CLASS-350-292 ..... c 44 N79-24432 *
US-PATENT-CLASS-350-293 ..... c 18 N73-16536 *
US-PATENT-CLASS-350-293 ..... c 12 N76-15189 *
US-PATENT-CLASS-350-293 ..... c 44 N76-24696 *
US-PATENT-CLASS-350-293 ..... c 44 N78-10554 *
US-PATENT-CLASS-350-293 ..... c 44 N79-14529 *
US-PATENT-CLASS-350-294 ..... c 89 N79-10969 *
US-PATENT-CLASS-350-294 ..... c 44 N79-24432 *
US-PATENT-CLASS-350-294 ..... c 32 N80-24510 *
US-PATENT-CLASS-350-295 ..... c 44 N77-32583 *
US-PATENT-CLASS-350-295 ..... c 44 N80-14473 *
US-PATENT-CLASS-350-296 ..... c 44 N79-24432 *
US-PATENT-CLASS-350-296 ..... c 44 N80-14473 *
US-PATENT-CLASS-350-299 ..... c 74 N74-21304 *
US-PATENT-CLASS-350-299 ..... c 44 N76-24696 *
US-PATENT-CLASS-350-299 ..... c 74 N77-28932 *
US-PATENT-CLASS-350-299 ..... c 44 N78-10554 *
US-PATENT-CLASS-350-299 ..... c 44 N78-31526 *
US-PATENT-CLASS-350-299 ..... c 44 N79-11471 *
US-PATENT-CLASS-350-299 ..... c 44 N79-24433 *
US-PATENT-CLASS-350-299 ..... c 36 N84-14509 *
US-PATENT-CLASS-350-2 ..... c 23 N71-30027 *
US-PATENT-CLASS-350-3.5 ..... c 18 N71-15551 *
US-PATENT-CLASS-350-3.5 ..... c 18 N71-15565 *
US-PATENT-CLASS-350-3.5 ..... c 18 N71-15567 *
US-PATENT-CLASS-350-3.5 ..... c 18 N71-26154 *
US-PATENT-CLASS-350-3.5 ..... c 18 N71-29131 *
US-PATENT-CLASS-350-3.5 ..... c 14 N72-17324 *
US-PATENT-CLASS-350-3.5 ..... c 18 N73-30476 *
US-PATENT-CLASS-350-3.5 ..... c 35 N74-15148 *
US-PATENT-CLASS-350-3.5 ..... c 35 N74-17153 *
US-PATENT-CLASS-350-3.5 ..... c 35 N74-26946 *
US-PATENT-CLASS-350-3.5 ..... c 35 N75-25124 *
US-PATENT-CLASS-350-3.5 ..... c 35 N75-27329 *
US-PATENT-CLASS-350-3.5 ..... c 35 N78-18402 *
US-PATENT-CLASS-350-3.5 ..... c 35 N78-17357 *
US-PATENT-CLASS-350-3.5 ..... c 36 N78-32447 *
US-PATENT-CLASS-350-3.73 .... c 36 N87-23960 *
US-PATENT-CLASS-350-3.81 .... c 36 N87-23960 *
US-PATENT-CLASS-350-301 ..... c 74 N81-17888 *
US-PATENT-CLASS-350-310 ..... c 11 N69-24321 * #
US-PATENT-CLASS-350-310 ..... c 23 N71-24068 *
US-PATENT-CLASS-350-310 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-310 ..... c 23 N71-33229 *
US-PATENT-CLASS-350-310 ..... c 23 N72-22673 *
US-PATENT-CLASS-350-310 ..... c 74 N77-28933 *
US-PATENT-CLASS-350-311 ..... c 74 N75-25706 *
US-PATENT-CLASS-350-312 ..... c 18 N72-12440 *
US-PATENT-CLASS-350-312 ..... c 74 N85-29750 *
US-PATENT-CLASS-350-315 ..... c 74 N88-29650 * #
US-PATENT-CLASS-350-316 ..... c 27 N83-36220 *
US-PATENT-CLASS-350-318 ..... c 74 N88-29650 * #
US-PATENT-CLASS-350-319 ..... c 74 N85-29750 *
US-PATENT-CLASS-350-319 ..... c 74 N88-20125 *
US-PATENT-CLASS-350-319 ..... c 09 N87-14355 *
US-PATENT-CLASS-350-320 ..... c 74 N77-28933 *
US-PATENT-CLASS-350-320 ..... c 44 N77-32583 *
US-PATENT-CLASS-350-320 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-320 ..... c 44 N79-14529 *

US-PATENT-CLASS-350-320 ..... c 74 N85-29749 *
US-PATENT-CLASS-350-321 ..... c 74 N85-29750 *
US-PATENT-CLASS-350-331-R ... c 74 N89-14078 *
US-PATENT-CLASS-350-335 ..... c 74 N88-21348 *
US-PATENT-CLASS-350-337 ..... c 74 N89-14078 *
US-PATENT-CLASS-350-342 ..... c 76 N85-33829 *
US-PATENT-CLASS-350-342 ..... c 74 N89-14078 *
US-PATENT-CLASS-350-353 ..... c 74 N83-19597 *
US-PATENT-CLASS-350-354 ..... c 32 N88-20647 *
US-PATENT-CLASS-350-354 ..... c 74 N89-14077 *
US-PATENT-CLASS-350-356 ..... c 74 N80-22383 *
US-PATENT-CLASS-350-358 ..... c 36 N82-29589 *
US-PATENT-CLASS-350-359 ..... c 36 N80-18321 *
US-PATENT-CLASS-350-35 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-36 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-370 ..... c 35 N81-33449 *
US-PATENT-CLASS-350-443 ..... c 74 N84-23248 *
US-PATENT-CLASS-350-445 ..... c 74 N83-36898 *
US-PATENT-CLASS-350-448 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-453 ..... c 36 N82-32712 *
US-PATENT-CLASS-350-486 ..... c 74 N83-13978 *
US-PATENT-CLASS-350-49 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-505 ..... c 74 N85-23396 *
US-PATENT-CLASS-350-505 ..... c 74 N86-28732 *
US-PATENT-CLASS-350-52 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-52 ..... c 14 N72-22444 *
US-PATENT-CLASS-350-537 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-55 ..... c 23 N71-33229 *
US-PATENT-CLASS-350-55 ..... c 14 N73-30393 *
US-PATENT-CLASS-350-55 ..... c 23 N73-30666 *
US-PATENT-CLASS-350-55 ..... c 89 N79-10969 *
US-PATENT-CLASS-350-55 ..... c 74 N80-33210 *
US-PATENT-CLASS-350-572 ..... c 35 N88-14350 *
US-PATENT-CLASS-350-573 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-580 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-58 ..... c 14 N71-15604 *
US-PATENT-CLASS-350-6.5 ..... c 32 N80-24510 *
US-PATENT-CLASS-350-6.5 ..... c 74 N87-21879 *
US-PATENT-CLASS-350-6.6 ..... c 32 N80-24510 *
US-PATENT-CLASS-350-619 ..... c 74 N85-23396 *
US-PATENT-CLASS-350-6 ..... c 14 N69-27481 * #
US-PATENT-CLASS-350-6 ..... c 36 N74-15145 *
US-PATENT-CLASS-350-79 ..... c 14 N72-32452 *
US-PATENT-CLASS-350-7 ..... c 74 N74-15096 *
US-PATENT-CLASS-350-86 ..... c 14 N72-22445 *
US-PATENT-CLASS-350-96.10 ... c 74 N84-11921 *
US-PATENT-CLASS-350-96.15 ... c 74 N84-11921 *
US-PATENT-CLASS-350-96.15 ... c 74 N85-29749 *
US-PATENT-CLASS-350-96.16 ... c 74 N83-29032 *
US-PATENT-CLASS-350-96.21 ... c 74 N89-25689 *
US-PATENT-CLASS-350-96.25 ... c 33 N81-29342 *
US-PATENT-CLASS-350-96.25 ... c 74 N89-25689 *
US-PATENT-CLASS-350-96R ..... c 60 N77-14751 *
US-PATENT-CLASS-350-96R ..... c 60 N77-32731 *
US-PATENT-CLASS-350-96R ..... c 60 N79-10709 *
US-PATENT-CLASS-350-96WG ... c 36 N75-31427 *
US-PATENT-CLASS-350-96WG ... c 36 N76-18428 *
US-PATENT-CLASS-350-96WG ... c 36 N76-24553 *
US-PATENT-CLASS-350-96 ..... c 07 N71-26291 *
US-PATENT-CLASS-351-166 ..... c 74 N78-32864 *
US-PATENT-CLASS-351-203 ..... c 52 N89-18258 *
US-PATENT-CLASS-351-206 ..... c 52 N87-24874 *
US-PATENT-CLASS-351-208 ..... c 52 N87-24874 *
US-PATENT-CLASS-351-237 ..... c 52 N89-18258 *
US-PATENT-CLASS-351-23 ..... c 05 N73-26072 *
US-PATENT-CLASS-351-23 ..... c 52 N76-30793 *
US-PATENT-CLASS-351-30 ..... c 05 N73-26072 *
US-PATENT-CLASS-351-30 ..... c 52 N76-30793 *
US-PATENT-CLASS-351-36 ..... c 05 N73-26072 *
US-PATENT-CLASS-351-36 ..... c 52 N76-30793 *
US-PATENT-CLASS-351-38 ..... c 54 N75-27759 *
US-PATENT-CLASS-352-169 ..... c 14 N73-14427 *
US-PATENT-CLASS-352-171 ..... c 35 N82-29629 *
US-PATENT-CLASS-352-84 ..... c 16 N71-33410 *
US-PATENT-CLASS-352-84 ..... c 14 N72-18411 *
US-PATENT-CLASS-353-54 ..... c 34 N74-23096 *
US-PATENT-CLASS-353-61 ..... c 34 N74-23096 *
US-PATENT-CLASS-354-118 ..... c 74 N81-17888 *
US-PATENT-CLASS-354-217 ..... c 35 N82-29629 *
US-PATENT-CLASS-354-234 ..... c 33 N74-20861 *
US-PATENT-CLASS-354-234 ..... c 70 N74-21300 *
US-PATENT-CLASS-354-289 ..... c 35 N82-29629 *
US-PATENT-CLASS-354-479 ..... c 74 N86-28732 *
US-PATENT-CLASS-354-62 ..... c 52 N87-24874 *
US-PATENT-CLASS-354-77 ..... c 74 N79-20858 *
US-PATENT-CLASS-355-18 ..... c 14 N73-33081 *
US-PATENT-CLASS-356-100 ..... c 14 N71-28694 *
US-PATENT-CLASS-356-100 ..... c 36 N75-15029 *
US-PATENT-CLASS-356-100 ..... c 74 N78-13674 *
US-PATENT-CLASS-356-104 ..... c 18 N71-24074 *
US-PATENT-CLASS-356-104 ..... c 74 N78-13674 *
US-PATENT-CLASS-356-106LR ... c 36 N75-19653 *
US-PATENT-CLASS-356-106R .... c 72 N74-18310 *
US-PATENT-CLASS-356-106R .... c 36 N76-14447 *
US-PATENT-CLASS-356-106R .... c 35 N77-10480 *
US-PATENT-CLASS-356-106R .... c 47 N77-15793 *

US-PATENT-CLASS-356-1065 ..... c 23 N73-13661 *
US-PATENT-CLASS-356-1065 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-1065 ..... c 35 N78-18391 *
US-PATENT-CLASS-356-1065 ..... c 35 N74-23040 *
US-PATENT-CLASS-356-106 ..... c 14 N71-17627 *
US-PATENT-CLASS-356-106 ..... c 14 N71-17655 *
US-PATENT-CLASS-356-106 ..... c 14 N71-27215 *
US-PATENT-CLASS-356-106 ..... c 14 N73-12448 *
US-PATENT-CLASS-356-106 ..... c 35 N74-15146 *
US-PATENT-CLASS-356-107 ..... c 16 N71-24170 *
US-PATENT-CLASS-356-108 ..... c 26 N73-26751 *
US-PATENT-CLASS-356-109 ..... c 16 N73-30476 *
US-PATENT-CLASS-356-109 ..... c 16 N73-30476 *
US-PATENT-CLASS-356-110 ..... c 14 N73-25463 *
US-PATENT-CLASS-356-110 ..... c 35 N78-18391 *
US-PATENT-CLASS-356-112 ..... c 72 N74-19310 *
US-PATENT-CLASS-356-113 ..... c 14 N72-17323 *
US-PATENT-CLASS-356-113 ..... c 35 N74-23040 *
US-PATENT-CLASS-356-114 ..... c 14 N73-12448 *
US-PATENT-CLASS-356-114 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-117 ..... c 23 N71-16101 *
US-PATENT-CLASS-356-120 ..... c 74 N78-27904 *
US-PATENT-CLASS-356-123 ..... c 74 N76-19935 *
US-PATENT-CLASS-356-124 ..... c 74 N76-19935 *
US-PATENT-CLASS-356-124 ..... c 74 N79-11865 *
US-PATENT-CLASS-356-128 ..... c 76 N87-25862 *
US-PATENT-CLASS-356-129 ..... c 74 N79-20656 *
US-PATENT-CLASS-356-129 ..... c 76 N87-25862 *
US-PATENT-CLASS-356-138 ..... c 14 N72-20379 *
US-PATENT-CLASS-356-138 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-141 ..... c 14 N72-27409 *
US-PATENT-CLASS-356-141 ..... c 14 N73-28490 *
US-PATENT-CLASS-356-141 ..... c 36 N74-21091 *
US-PATENT-CLASS-356-141 ..... c 89 N74-30886 *
US-PATENT-CLASS-356-141 ..... c 74 N77-22951 *
US-PATENT-CLASS-356-147 ..... c 89 N74-30886 *
US-PATENT-CLASS-356-148 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-150 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-150 ..... c 74 N80-21138 *
US-PATENT-CLASS-356-152 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-152 ..... c 16 N72-13437 *
US-PATENT-CLASS-356-152 ..... c 14 N72-20379 *
US-PATENT-CLASS-356-152 ..... c 14 N72-27409 *
US-PATENT-CLASS-356-152 ..... c 14 N73-25462 *
US-PATENT-CLASS-356-152 ..... c 36 N74-15145 *
US-PATENT-CLASS-356-152 ..... c 36 N74-21091 *
US-PATENT-CLASS-356-152 ..... c 74 N74-21304 *
US-PATENT-CLASS-356-152 ..... c 74 N77-22951 *
US-PATENT-CLASS-356-152 ..... c 74 N80-21138 *
US-PATENT-CLASS-356-152 ..... c 37 N81-27518 *
US-PATENT-CLASS-356-153 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-153 ..... c 23 N71-29125 *
US-PATENT-CLASS-356-153 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-153 ..... c 16 N75-14186 *
US-PATENT-CLASS-356-154 ..... c 15 N71-28673 *
US-PATENT-CLASS-356-159 ..... c 36 N78-14380 *
US-PATENT-CLASS-356-160 ..... c 36 N78-14380 *
US-PATENT-CLASS-356-161 ..... c 26 N73-26751 *
US-PATENT-CLASS-356-162 ..... c 66 N76-19668 *
US-PATENT-CLASS-356-165 ..... c 36 N78-17396 *
US-PATENT-CLASS-356-166 ..... c 14 N71-23175 *
US-PATENT-CLASS-356-167 ..... c 14 N72-11364 *
US-PATENT-CLASS-356-167 ..... c 66 N76-19668 *
US-PATENT-CLASS-356-167 ..... c 74 N78-27904 *
US-PATENT-CLASS-356-169 ..... c 60 N78-10709 *
US-PATENT-CLASS-356-171 ..... c 74 N77-22950 *
US-PATENT-CLASS-356-172 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-172 ..... c 36 N74-21091 *
US-PATENT-CLASS-356-172 ..... c 74 N77-22951 *
US-PATENT-CLASS-356-17 ..... c 14 N72-21409 *
US-PATENT-CLASS-356-180 ..... c 35 N74-27860 *
US-PATENT-CLASS-356-188 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-188 ..... c 35 N84-33760 *
US-PATENT-CLASS-356-189 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-189 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-18 ..... c 14 N72-21409 *
US-PATENT-CLASS-356-197 ..... c 37 N74-18123 *
US-PATENT-CLASS-356-199 ..... c 36 N78-14380 *
US-PATENT-CLASS-356-1 ..... c 36 N83-34304 *
US-PATENT-CLASS-356-1 ..... c 36 N88-24958 *
US-PATENT-CLASS-356-201 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-201 ..... c 35 N77-14411 *
US-PATENT-CLASS-356-202 ..... c 26 N73-26751 *
US-PATENT-CLASS-356-203 ..... c 14 N71-26788 *
US-PATENT-CLASS-356-204 ..... c 35 N77-14411 *
US-PATENT-CLASS-356-204 ..... c 74 N78-17867 *
US-PATENT-CLASS-356-207 ..... c 45 N76-17658 *
US-PATENT-CLASS-356-208 ..... c 74 N78-33913 *
US-PATENT-CLASS-356-209 ..... c 23 N71-16341 *
US-PATENT-CLASS-356-209 ..... c 14 N71-28993 *
US-PATENT-CLASS-356-209 ..... c 14 N72-17323 *
US-PATENT-CLASS-356-209 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-210 ..... c 74 N79-11865 *
US-PATENT-CLASS-356-212 ..... c 35 N77-31465 *
US-PATENT-CLASS-356-213 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-216 ..... c 74 N74-15095 *

US-PATENT-CLASS-356-216 ..... c 35 N80-18359 *
US-PATENT-CLASS-356-216 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-216 ..... c 35 N84-22931 *
US-PATENT-CLASS-356-222 ..... c 03 N72-20033 *
US-PATENT-CLASS-356-222 ..... c 47 N83-32232 *
US-PATENT-CLASS-356-234 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-234 ..... c 35 N84-22931 *
US-PATENT-CLASS-356-236 ..... c 74 N77-21941 *
US-PATENT-CLASS-356-236 ..... c 74 N86-26190 *
US-PATENT-CLASS-356-237 ..... c 74 N77-10899 *
US-PATENT-CLASS-356-237 ..... c 36 N78-17395 *
US-PATENT-CLASS-356-237 ..... c 36 N78-17396 *
US-PATENT-CLASS-356-237 ..... c 35 N79-28527 *
US-PATENT-CLASS-356-239 ..... c 74 N77-10899 *
US-PATENT-CLASS-356-241 ..... c 14 N72-32452 *
US-PATENT-CLASS-356-243 ..... c 36 N80-16321 *
US-PATENT-CLASS-356-244 ..... c 14 N72-17323 *
US-PATENT-CLASS-356-244 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-244 ..... c 35 N80-28687 *
US-PATENT-CLASS-356-244 ..... c 74 N86-26190 *
US-PATENT-CLASS-356-246 ..... c 35 N74-27860 *
US-PATENT-CLASS-356-246 ..... c 74 N78-17867 *
US-PATENT-CLASS-356-246 ..... c 74 N87-14971 *
US-PATENT-CLASS-356-248 ..... c 14 N72-22444 *
US-PATENT-CLASS-356-256 ..... c 36 N87-28006 *
US-PATENT-CLASS-356-28.5 ..... c 32 N80-24510 *
US-PATENT-CLASS-356-28.5 ..... c 36 N81-24422 *
US-PATENT-CLASS-356-28.5 ..... c 36 N82-32712 *
US-PATENT-CLASS-356-28.5 ..... c 35 N86-32697 *
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US-PATENT-CLASS-356-28.5 ..... c 36 N90-25340 *
US-PATENT-CLASS-356-28 ..... c 21 N71-19212 *
US-PATENT-CLASS-356-28 ..... c 16 N71-24828 *
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US-PATENT-CLASS-356-28 ..... c 36 N75-15028 *
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US-PATENT-CLASS-356-28 ..... c 36 N76-14447 *
US-PATENT-CLASS-356-28 ..... c 36 N77-25501 *
US-PATENT-CLASS-356-28 ..... c 74 N78-17866 *
US-PATENT-CLASS-356-28 ..... c 35 N79-18296 *
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US-PATENT-CLASS-356-28 ..... c 36 N87-17026 *
US-PATENT-CLASS-356-28 ..... c 36 N90-25340 *
US-PATENT-CLASS-356-300 ..... c 43 N79-17288 *
US-PATENT-CLASS-356-301 ..... c 35 N87-14669 *
US-PATENT-CLASS-356-311 ..... c 35 N86-25753 *
US-PATENT-CLASS-356-318 ..... c 35 N86-25753 *
US-PATENT-CLASS-356-323 ..... c 74 N85-23396 *
US-PATENT-CLASS-356-328 ..... c 35 N80-26635 *
US-PATENT-CLASS-356-32 ..... c 14 N72-11364 *
US-PATENT-CLASS-356-32 ..... c 32 N73-20740 *
US-PATENT-CLASS-356-32 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-330 ..... c 74 N85-23396 *
US-PATENT-CLASS-356-331 ..... c 74 N85-23396 *
US-PATENT-CLASS-356-334 ..... c 74 N80-21140 *
US-PATENT-CLASS-356-345 ..... c 74 N81-17888 *
US-PATENT-CLASS-356-345 ..... c 74 N81-29963 *
US-PATENT-CLASS-356-345 ..... c 36 N84-14509 *
US-PATENT-CLASS-356-345 ..... c 74 N86-21348 *
US-PATENT-CLASS-356-346 ..... c 35 N80-20563 *
US-PATENT-CLASS-356-346 ..... c 74 N81-29963 *
US-PATENT-CLASS-356-347 ..... c 35 N84-22929 *
US-PATENT-CLASS-356-347 ..... c 35 N89-26202 *
US-PATENT-CLASS-356-349 ..... c 36 N82-16396 *
US-PATENT-CLASS-356-350 ..... c 35 N81-33448 *
US-PATENT-CLASS-356-350 ..... c 74 N87-23259 *
US-PATENT-CLASS-356-351 ..... c 35 N81-33448 *
US-PATENT-CLASS-356-351 ..... c 35 N85-30282 *
US-PATENT-CLASS-356-352 ..... c 74 N81-17888 *
US-PATENT-CLASS-356-353 ..... c 74 N83-32577 *
US-PATENT-CLASS-356-356 ..... c 36 N81-24422 *
US-PATENT-CLASS-356-357 ..... c 74 N83-21949 *
US-PATENT-CLASS-356-358 ..... c 74 N81-17888 *
US-PATENT-CLASS-356-358 ..... c 36 N81-24422 *
US-PATENT-CLASS-356-358 ..... c 35 N85-30282 *
US-PATENT-CLASS-356-361 ..... c 35 N89-26202 *
US-PATENT-CLASS-356-363 ..... c 74 N83-32577 *
US-PATENT-CLASS-356-369 ..... c 35 N80-28687 *
US-PATENT-CLASS-356-36 ..... c 23 N71-16365 *
US-PATENT-CLASS-356-376 ..... c 36 N88-24958 *
US-PATENT-CLASS-356-37 ..... c 45 N76-21742 *
US-PATENT-CLASS-356-386 ..... c 36 N82-16396 *
US-PATENT-CLASS-356-389 ..... c 33 N87-14584 *
US-PATENT-CLASS-356-394 ..... c 33 N83-16996 *
US-PATENT-CLASS-356-4.5 ..... c 74 N86-21348 *
US-PATENT-CLASS-356-4.5 ..... c 74 N86-32296 *
US-PATENT-CLASS-356-402 ..... c 74 N86-29650 * #
US-PATENT-CLASS-356-404 ..... c 35 N79-28527 *
US-PATENT-CLASS-356-406 ..... c 52 N81-27783 *
US-PATENT-CLASS-356-407 ..... c 43 N79-17288 *
US-PATENT-CLASS-356-407 ..... c 52 N81-27783 *
US-PATENT-CLASS-356-409 ..... c 36 N87-28006 *

US-PATENT-CLASS-356-416 ..... c 43 N79-17288 *
US-PATENT-CLASS-356-416 ..... c 52 N81-27783 *
US-PATENT-CLASS-356-419 ..... c 74 N86-29650 * #
US-PATENT-CLASS-356-432 ..... c 74 N81-17887 *
US-PATENT-CLASS-356-432 ..... c 25 N81-25159 *
US-PATENT-CLASS-356-434 ..... c 35 N84-34705 *
US-PATENT-CLASS-356-437 ..... c 25 N81-14015 *
US-PATENT-CLASS-356-43 ..... c 74 N74-15095 *
US-PATENT-CLASS-356-43 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-43 ..... c 36 N85-21639 *
US-PATENT-CLASS-356-43 ..... c 36 N90-17132 *
US-PATENT-CLASS-356-448 ..... c 74 N86-26190 *
US-PATENT-CLASS-356-45 ..... c 36 N85-21639 *
US-PATENT-CLASS-356-4 ..... c 14 N72-17326 *
US-PATENT-CLASS-356-4 ..... c 07 N73-26119 *
US-PATENT-CLASS-356-4 ..... c 36 N74-15145 *
US-PATENT-CLASS-356-4 ..... c 35 N75-15014 *
US-PATENT-CLASS-356-4 ..... c 36 N83-34304 *
US-PATENT-CLASS-356-4 ..... c 36 N88-24958 *
US-PATENT-CLASS-356-51 ..... c 06 N72-31141 *
US-PATENT-CLASS-356-51 ..... c 35 N75-30502 *
US-PATENT-CLASS-356-51 ..... c 36 N83-21311 *
US-PATENT-CLASS-356-51 ..... c 35 N84-34705 *
US-PATENT-CLASS-356-51 ..... c 36 N87-28006 *
US-PATENT-CLASS-356-5 ..... c 07 N73-26119 *
US-PATENT-CLASS-356-5 ..... c 36 N74-15145 *
US-PATENT-CLASS-356-5 ..... c 36 N75-15028 *
US-PATENT-CLASS-356-5 ..... c 32 N82-23376 *
US-PATENT-CLASS-356-5 ..... c 74 N85-34629 *
US-PATENT-CLASS-356-5 ..... c 74 N86-32266 *
US-PATENT-CLASS-356-5 ..... c 32 N87-14559 *
US-PATENT-CLASS-356-71 ..... c 66 N76-19888 *
US-PATENT-CLASS-356-72 ..... c 14 N71-23268 *
US-PATENT-CLASS-356-72 ..... c 33 N73-27796 *
US-PATENT-CLASS-356-72 ..... c 36 N78-32447 *
US-PATENT-CLASS-356-72 ..... c 74 N80-33210 *
US-PATENT-CLASS-356-72 ..... c 35 N86-32697 *
US-PATENT-CLASS-356-73.1 ..... c 76 N90-24150 *
US-PATENT-CLASS-356-73 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-73 ..... c 36 N78-32447 *
US-PATENT-CLASS-356-73 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-73 ..... c 09 N86-32447 *
US-PATENT-CLASS-356-73 ..... c 35 N86-32697 *
US-PATENT-CLASS-356-73 ..... c 76 N90-24150 *
US-PATENT-CLASS-356-74 ..... c 30 N71-15990 *
US-PATENT-CLASS-356-74 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-76 ..... c 23 N71-26206 *
US-PATENT-CLASS-356-76 ..... c 14 N71-29041 *
US-PATENT-CLASS-356-83 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-85 ..... c 37 N74-18123 *
US-PATENT-CLASS-356-85 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-87 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-96 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-97 ..... c 35 N77-14411 *
US-PATENT-CLASS-357-12 ..... c 33 N85-21492 *
US-PATENT-CLASS-357-13 ..... c 35 N80-17118 *
US-PATENT-CLASS-357-15 ..... c 44 N78-13526 *
US-PATENT-CLASS-357-15 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-15 ..... c 44 N81-29525 *
US-PATENT-CLASS-357-15 ..... c 76 N86-20150 *
US-PATENT-CLASS-357-16 ..... c 44 N78-13526 *
US-PATENT-CLASS-357-16 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-17 ..... c 36 N85-30306 *
US-PATENT-CLASS-357-22 ..... c 33 N79-11314 *
US-PATENT-CLASS-357-22 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-22 ..... c 33 N90-20262 *
US-PATENT-CLASS-357-23.12 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-23.1 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-23.6 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-231 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-23 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-23 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-23 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-24 ..... c 33 N75-31331 *
US-PATENT-CLASS-357-24 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-29 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-29 ..... c 35 N84-33766 *
US-PATENT-CLASS-357-29 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-29 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-30 ..... c 44 N76-28635 *
US-PATENT-CLASS-357-30 ..... c 44 N78-13526 *
US-PATENT-CLASS-357-30 ..... c 44 N78-24609 *
US-PATENT-CLASS-357-30 ..... c 44 N78-25527 *
US-PATENT-CLASS-357-30 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-30 ..... c 44 N79-14528 *
US-PATENT-CLASS-357-30 ..... c 44 N79-31752 *
US-PATENT-CLASS-357-30 ..... c 44 N80-29835 *
US-PATENT-CLASS-357-30 ..... c 44 N81-19558 *
US-PATENT-CLASS-357-30 ..... c 44 N81-29525 *
US-PATENT-CLASS-357-30 ..... c 44 N82-26777 *
US-PATENT-CLASS-357-30 ..... c 44 N82-29709 *
US-PATENT-CLASS-357-30 ..... c 44 N82-31764 *
US-PATENT-CLASS-357-30 ..... c 44 N83-13579 *
US-PATENT-CLASS-357-30 ..... c 44 N83-32177 *
US-PATENT-CLASS-357-30 ..... c 35 N84-33766 *
US-PATENT-CLASS-357-30 ..... c 33 N85-21492 *

US-PATENT-CLASS-357-30 ..... c 44 N85-21768 *
US-PATENT-CLASS-357-30 ..... c 44 N85-30475 *
US-PATENT-CLASS-357-30 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-30 ..... c 76 N86-20150 *
US-PATENT-CLASS-357-30 ..... c 44 N86-32875 *
US-PATENT-CLASS-357-30 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-30 ..... c 33 N87-23879 *
US-PATENT-CLASS-357-30 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-30 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-30 ..... c 76 N88-14836 *
US-PATENT-CLASS-357-30 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-30 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-32 ..... c 35 N84-33765 *
US-PATENT-CLASS-357-35 ..... c 33 N87-23879 *
US-PATENT-CLASS-357-40 ..... c 36 N85-30305 *
US-PATENT-CLASS-357-41 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-42 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-45 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-45 ..... c 44 N79-26475 *
US-PATENT-CLASS-357-46 ..... c 36 N85-30305 *
US-PATENT-CLASS-357-4 ..... c 33 N78-13320 *
US-PATENT-CLASS-357-4 ..... c 76 N85-30922 *
US-PATENT-CLASS-357-4 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-4 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-50 ..... c 76 N85-30922 *
US-PATENT-CLASS-357-52 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-52 ..... c 44 N80-29835 *
US-PATENT-CLASS-357-52 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-54 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-55 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-55 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-55 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-56 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-58 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-58 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-59 ..... c 44 N76-28635 *
US-PATENT-CLASS-357-59 ..... c 44 N78-24609 *
US-PATENT-CLASS-357-59 ..... c 44 N81-19558 *
US-PATENT-CLASS-357-59 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-5 ..... c 33 N75-31332 *
US-PATENT-CLASS-357-5 ..... c 33 N78-13320 *
US-PATENT-CLASS-357-60 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-61 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-61 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-63 ..... c 33 N76-31409 *
US-PATENT-CLASS-357-63 ..... c 44 N81-19558 *
US-PATENT-CLASS-357-63 ..... c 44 N82-26777 *
US-PATENT-CLASS-357-65 ..... c 44 N78-25527 *
US-PATENT-CLASS-357-65 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-65 ..... c 44 N79-31752 *
US-PATENT-CLASS-357-65 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-67 ..... c 44 N78-25527 *
US-PATENT-CLASS-357-67 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-67 ..... c 44 N79-31752 *
US-PATENT-CLASS-357-68 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-72 ..... c 33 N88-23941 *
US-PATENT-CLASS-357-73 ..... c 33 N78-13320 *
US-PATENT-CLASS-357-74 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-74 ..... c 33 N88-23941 *
US-PATENT-CLASS-357-76 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-79 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-7 ..... c 33 N75-31331 *
US-PATENT-CLASS-357-81 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-81 ..... c 33 N88-23941 *
US-PATENT-CLASS-357-81 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-82 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-83 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-90 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-91 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-91 ..... c 33 N78-27326 *
US-PATENT-CLASS-357-91 ..... c 44 N80-29835 *
US-PATENT-CLASS-357-91 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-91 ..... c 44 N86-32875 *
US-PATENT-CLASS-358-101 ..... c 37 N86-21850 *
US-PATENT-CLASS-358-104 ..... c 09 N78-18083 *
US-PATENT-CLASS-358-104 ..... c 74 N79-13855 *
US-PATENT-CLASS-358-104 ..... c 36 N83-34304 *
US-PATENT-CLASS-358-105 ..... c 39 N83-20280 *
US-PATENT-CLASS-358-105 ..... c 74 N86-21348 *
US-PATENT-CLASS-358-105 ..... c 17 N87-25348 *
US-PATENT-CLASS-358-106 ..... c 39 N78-16387 *
US-PATENT-CLASS-358-107 ..... c 35 N79-18296 *
US-PATENT-CLASS-358-107 ..... c 36 N88-24958 *
US-PATENT-CLASS-358-109 ..... c 32 N79-20297 *
US-PATENT-CLASS-358-109 ..... c 33 N81-33403 *
US-PATENT-CLASS-358-109 ..... c 43 N82-13465 *
US-PATENT-CLASS-358-109 ..... c 36 N83-34304 *
US-PATENT-CLASS-358-109 ..... c 32 N85-29117 *
US-PATENT-CLASS-358-109 ..... c 35 N90-22769 *
US-PATENT-CLASS-358-111 ..... c 52 N79-10724 *
US-PATENT-CLASS-358-113 ..... c 35 N90-22770 *
US-PATENT-CLASS-358-125 ..... c 74 N84-23247 *
US-PATENT-CLASS-358-125 ..... c 74 N86-21348 *
US-PATENT-CLASS-358-133 ..... c 32 N77-24328 *
US-PATENT-CLASS-358-133 ..... c 32 N85-29117 *
US-PATENT-CLASS-358-133 ..... c 17 N87-25348 *

US-PATENT-CLASS-358-138 ..... c 32 N77-24328 *
US-PATENT-CLASS-358-138 ..... c 17 N87-25348 *
US-PATENT-CLASS-358-142 ..... c 74 N78-14889 *
US-PATENT-CLASS-358-161 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-168 ..... c 32 N86-20647 *
US-PATENT-CLASS-358-174 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-213 ..... c 33 N81-33403 *
US-PATENT-CLASS-358-213 ..... c 33 N82-24416 *
US-PATENT-CLASS-358-213 ..... c 74 N84-23247 *
US-PATENT-CLASS-358-217 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-219 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-222 ..... c 74 N86-28732 *
US-PATENT-CLASS-358-225 ..... c 74 N78-17865 *
US-PATENT-CLASS-358-36 ..... c 32 N75-21485 *
US-PATENT-CLASS-358-41 ..... c 74 N78-17865 *
US-PATENT-CLASS-358-44 ..... c 74 N77-18893 *
US-PATENT-CLASS-358-55 ..... c 74 N78-17865 *
US-PATENT-CLASS-358-81 ..... c 32 N79-20297 *
US-PATENT-CLASS-358-86 ..... c 74 N86-21348 *
US-PATENT-CLASS-358-88 ..... c 32 N89-28676 *
US-PATENT-CLASS-358-91 ..... c 32 N89-28676 *
US-PATENT-CLASS-358-92 ..... c 32 N89-28676 *
US-PATENT-CLASS-358-93 ..... c 35 N90-22770 *
US-PATENT-CLASS-358-96 ..... c 52 N79-10724 *
US-PATENT-CLASS-36-119 ..... c 54 N78-17675 *
US-PATENT-CLASS-36-92 ..... c 54 N78-17675 *
US-PATENT-CLASS-360-101 ..... c 35 N76-16391 *
US-PATENT-CLASS-360-10 ..... c 35 N76-16391 *
US-PATENT-CLASS-360-25 ..... c 35 N77-17426 *
US-PATENT-CLASS-360-26 ..... c 33 N76-18353 *
US-PATENT-CLASS-360-31 ..... c 35 N77-17426 *
US-PATENT-CLASS-360-35 ..... c 35 N76-16391 *
US-PATENT-CLASS-360-51 ..... c 33 N76-18353 *
US-PATENT-CLASS-360-9 ..... c 35 N76-16391 *
US-PATENT-CLASS-361-100 ..... c 33 N83-34190 *
US-PATENT-CLASS-361-141 ..... c 33 N82-11357 *
US-PATENT-CLASS-361-170 ..... c 33 N79-28415 *
US-PATENT-CLASS-361-218 ..... c 03 N88-14083 *
US-PATENT-CLASS-361-222 ..... c 03 N88-14083 *
US-PATENT-CLASS-361-226 ..... c 28 N82-18401 *
US-PATENT-CLASS-361-230 ..... c 28 N82-18401 *
US-PATENT-CLASS-361-283 ..... c 33 N82-26572 *
US-PATENT-CLASS-361-334 ..... c 35 N81-26431 *
US-PATENT-CLASS-361-383 ..... c 31 N90-21215 *
US-PATENT-CLASS-361-384 ..... c 31 N90-21215 *
US-PATENT-CLASS-361-385 ..... c 31 N90-21215 *
US-PATENT-CLASS-361-395 ..... c 32 N78-24391 *
US-PATENT-CLASS-361-56 ..... c 33 N81-27397 *
US-PATENT-CLASS-361-65 ..... c 33 N90-20320 *
US-PATENT-CLASS-361-79 ..... c 33 N90-20320 *
US-PATENT-CLASS-361-91 ..... c 33 N81-27397 *
US-PATENT-CLASS-362-11 ..... c 74 N81-17886 *
US-PATENT-CLASS-362-241 ..... c 74 N81-17886 *
US-PATENT-CLASS-362-269 ..... c 17 N78-17140 *
US-PATENT-CLASS-363-100 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-101 ..... c 33 N78-32341 *
US-PATENT-CLASS-363-101 ..... c 33 N81-19392 *
US-PATENT-CLASS-363-132 ..... c 33 N82-18494 *
US-PATENT-CLASS-363-134 ..... c 33 N79-24257 *
US-PATENT-CLASS-363-147 ..... c 44 N81-12542 *
US PATENT-CLASS-363-16 ..... c 33 N78-32341 *
US-PATENT-CLASS-363-17 ..... c 33 N82-18494 *
US-PATENT-CLASS-363-19 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-21 ..... c 33 N81-19392 *
US-PATENT-CLASS-363-21 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-22 ..... c 33 N84-33663 *
US-PATENT-CLASS-363-23 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-24 ..... c 33 N81-33404 *
US-PATENT-CLASS-363-25 ..... c 33 N84-16453 *
US-PATENT-CLASS-363-27 ..... c 44 N81-12542 *
US-PATENT-CLASS-363-36 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-40 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-47 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-49 ..... c 33 N84-33663 *
US-PATENT-CLASS-363-53 ..... c 33 N77-30365 *
US-PATENT-CLASS-363-54 ..... c 33 N83-34190 *
US-PATENT-CLASS-363-56 ..... c 33 N79-24254 *
US-PATENT-CLASS-363-56 ..... c 33 N81-14220 *
US-PATENT-CLASS-363-56 ..... c 33 N81-33404 *
US-PATENT-CLASS-363-57 ..... c 33 N78-10377 *
US-PATENT-CLASS-363-60 ..... c 33 N78-32341 *
US-PATENT-CLASS-363-60 ..... c 44 N81-12542 *
US-PATENT-CLASS-363-61 ..... c 33 N82-18494 *
US-PATENT-CLASS-363-61 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-65 ..... c 33 N84-16453 *
US-PATENT-CLASS-363-67 ..... c 33 N84-16453 *
US-PATENT-CLASS-363-70 ..... c 33 N77-30365 *
US-PATENT-CLASS-363-71 ..... c 33 N79-24254 *
US-PATENT-CLASS-363-71 ..... c 33 N79-24257 *
US-PATENT-CLASS-363-71 ..... c 33 N81-14220 *
US-PATENT-CLASS-363-71 ..... c 33 N84-16453 *
US-PATENT-CLASS-363-71 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-78 ..... c 33 N81-14220 *
US-PATENT-CLASS-363-87 ..... c 33 N83-10345 *
US-PATENT-CLASS-363-89 ..... c 33 N78-10377 *
US-PATENT-CLASS-363-95 ..... c 33 N79-24257 *

US-PATENT-CLASS-363-97 ..... c 33 N79-24254 *
US-PATENT-CLASS-363-97 ..... c 09 N88-28909 *
US-PATENT-CLASS-364-106 ..... c 07 N81-19115 *
US-PATENT-CLASS-364-120 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-131 ..... c 60 N89-28400 *
US-PATENT-CLASS-364-200 ..... c 62 N81-24779 *
US-PATENT-CLASS-364-200 ..... c 60 N81-27814 *
US-PATENT-CLASS-364-200 ..... c 60 N83-25379 *
US-PATENT-CLASS-364-200 ..... c 60 N83-32342 *
US-PATENT-CLASS-364-200 ..... c 32 N85-21429 *
US-PATENT-CLASS-364-200 ..... c 60 N85-21992 *
US-PATENT-CLASS-364-200 ..... c 60 N88-29310 *
US-PATENT-CLASS-364-229.4 ..... c 60 N90-21527 *
US-PATENT-CLASS-364-267.9 ..... c 60 N90-21527 *
US-PATENT-CLASS-364-300 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-400 ..... c 33 N85-29142 *
US-PATENT-CLASS-364-413 ..... c 39 N83-20280 *
US-PATENT-CLASS-364-415 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-415 ..... c 35 N84-12445 *
US-PATENT-CLASS-364-417 ..... c 52 N79-10724 *
US-PATENT-CLASS-364-427 ..... c 09 N90-20006 *
US-PATENT-CLASS-364-431 ..... c 07 N81-19115 *
US-PATENT-CLASS-364-433 ..... c 06 N86-27286 *
US-PATENT-CLASS-364-434 ..... c 08 N79-23087 *
US-PATENT-CLASS-364-434 ..... c 08 N81-24108 *
US-PATENT-CLASS-364-435 ..... c 06 N86-27286 *
US-PATENT-CLASS-364-452 ..... c 04 N84-27713 *
US-PATENT-CLASS-364-453 ..... c 18 N81-29152 *
US-PATENT-CLASS-364-453 ..... c 33 N85-29142 *
US-PATENT-CLASS-364-458 ..... c 32 N79-14267 *
US-PATENT-CLASS-364-481 ..... c 33 N90-19492 *
US-PATENT-CLASS-364-482 ..... c 33 N90-19492 *
US-PATENT-CLASS-364-484 ..... c 33 N89-14385 *
US-PATENT-CLASS-364-500 ..... c 25 N88-29002 *
US-PATENT-CLASS-364-510 ..... c 34 N81-28402 *
US-PATENT-CLASS-364-514 ..... c 33 N81-33405 *
US-PATENT-CLASS-364-522 ..... c 39 N83-20280 *
US-PATENT-CLASS-364-556 ..... c 36 N85-29264 *
US-PATENT-CLASS-364-557 ..... c 35 N84-14491 *
US-PATENT-CLASS-364-557 ..... c 25 N88-29002 *
US-PATENT-CLASS-364-558 ..... c 35 N84-14491 *
US-PATENT-CLASS-364-558 ..... c 07 N84-22559 *
US-PATENT-CLASS-364-559 ..... c 39 N83-20280 *
US-PATENT-CLASS-364-560 ..... c 43 N79-26439 *
US-PATENT-CLASS-364-561 ..... c 36 N88-24958 *
US-PATENT-CLASS-364-566 ..... c 18 N81-29152 *
US-PATENT-CLASS-364-571 ..... c 34 N81-28402 *
US-PATENT-CLASS-364-571 ..... c 35 N84-14491 *
US-PATENT-CLASS-364-571 ..... c 33 N85-34333 *
US-PATENT-CLASS-364-571 ..... c 25 N88-29002 *
US-PATENT-CLASS-364-578 ..... c 33 N85-34333 *
US-PATENT-CLASS-364-578 ..... c 35 N90-23713 *
US-PATENT-CLASS-364-604 ..... c 32 N79-14267 *
US-PATENT-CLASS-364-713 ..... c 32 N79-20297 *
US-PATENT-CLASS-364-717 ..... c 32 N82-31593 *
US-PATENT-CLASS-364-717 ..... c 33 N90-23638 *
US-PATENT-CLASS-364-723 ..... c 60 N85-33701 *
US-PATENT-CLASS-364-724.01 ... c 33 N89-28713 *
US-PATENT-CLASS-364-724.05 ... c 33 N89-28713 *
US-PATENT-CLASS-364-728 ..... c 32 N79-14267 *
US-PATENT-CLASS-364-728 ..... c 60 N86-21154 *
US-PATENT-CLASS-364-728 ..... c 60 N88-24109 *
US-PATENT-CLASS-364-735 ..... c 33 N89-28713 *
US-PATENT-CLASS-364-748.1 ... c 33 N90-23638 *
US-PATENT-CLASS-364-754 ..... c 33 N89-28713 *
US-PATENT-CLASS-364-757 ..... c 60 N88-24109 *
US-PATENT-CLASS-364-822 ..... c 32 N83-18675 *
US-PATENT-CLASS-364-822 ..... c 74 N86-21348 *
US-PATENT-CLASS-364-825 ..... c 33 N82-24417 *
US-PATENT-CLASS-364-853 ..... c 60 N85-33701 *
US-PATENT-CLASS-364-861 ..... c 32 N83-18675 *
US-PATENT-CLASS-364-900 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-900 ..... c 60 N79-20751 *
US-PATENT-CLASS-364-900 ..... c 60 N81-27814 *
US-PATENT-CLASS-364-900 ..... c 60 N83-32342 *
US-PATENT-CLASS-364-900 ..... c 60 N84-28491 *
US-PATENT-CLASS-364-900 ..... c 60 N84-28492 *
US-PATENT-CLASS-364-900 ..... c 33 N89-14384 *
US-PATENT-CLASS-364-900 ..... c 35 N90-23713 *
US-PATENT-CLASS-364-924.4 ... c 35 N90-23713 *
US-PATENT-CLASS-364-925.1 ... c 35 N90-23713 *
US-PATENT-CLASS-364-933.8 ... c 35 N90-23713 *
US-PATENT-CLASS-364-934 ..... c 35 N90-23713 *
US-PATENT-CLASS-364-940.67 .. c 60 N90-21527 *
US-PATENT-CLASS-364-942.51 .. c 60 N90-21527 *
US-PATENT-CLASS-364-944 ..... c 60 N90-21527 *
US-PATENT-CLASS-364-975.5 ... c 60 N90-21527 *
US-PATENT-CLASS-365-120 ..... c 38 N81-29342 *
US-PATENT-CLASS-365-768 ..... c 32 N86-27513 *
US-PATENT-CLASS-366-106 ..... c 71 N84-28988 *
US-PATENT-CLASS-366-114 ..... c 71 N83-35781 *
US-PATENT-CLASS-367-100 ..... c 32 N82-18443 *
US-PATENT-CLASS-367-102 ..... c 32 N82-18443 *
US-PATENT-CLASS-367-181 ..... c 33 N82-26572 *
US-PATENT-CLASS-367-189 ..... c 35 N84-22833 *
US-PATENT-CLASS-367-191 ..... c 71 N88-24341 *

US-PATENT-CLASS-367-26 ..... c 39 N80-10507 *
US-PATENT-CLASS-367-27 ..... c 31 N80-32584 *
US-PATENT-CLASS-367-36 ..... c 31 N80-32584 *
US-PATENT-CLASS-367-57 ..... c 31 N80-32584 *
US-PATENT-CLASS-367-88 ..... c 32 N82-18443 *
US-PATENT-CLASS-367-88 ..... c 32 N83-31918 *
US-PATENT-CLASS-367-88 ..... c 43 N86-19711 *
US-PATENT-CLASS-367-908 ..... c 35 N89-14407 *
US-PATENT-CLASS-367-95 ..... c 32 N82-23376 *
US-PATENT-CLASS-367-99 ..... c 32 N87-14559 *
US-PATENT-CLASS-368-184 ..... c 33 N83-36357 *
US-PATENT-CLASS-368-200 ..... c 33 N83-36357 *
US-PATENT-CLASS-368-201 ..... c 33 N83-36357 *
US-PATENT-CLASS-368-47 ..... c 32 N81-14221 *
US-PATENT-CLASS-37N ..... c 27 N81-15104 *
US-PATENT-CLASS-370-100 ..... c 60 N82-16747 *
US-PATENT-CLASS-370-16 ..... c 62 N90-19776 *
US-PATENT-CLASS-370-58 ..... c 60 N81-27814 *
US-PATENT-CLASS-370-67 ..... c 33 N82-29538 *
US-PATENT-CLASS-370-85 ..... c 33 N81-14221 *
US-PATENT-CLASS-371-041 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-043 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-11.3 ..... c 60 N90-21527 *
US-PATENT-CLASS-371-20 ..... c 33 N81-26359 *
US-PATENT-CLASS-371-25 ..... c 33 N81-26359 *
US-PATENT-CLASS-371-37.4 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-37 ..... c 60 N87-21591 *
US-PATENT-CLASS-371-38.1 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-40 ..... c 60 N87-21591 *
US-PATENT-CLASS-371-43 ..... c 33 N87-25531 *
US-PATENT-CLASS-371-63 ..... c 17 N87-16863 *
US-PATENT-CLASS-371-68 ..... c 60 N82-29013 *
US-PATENT-CLASS-371-6 ..... c 32 N83-13323 *
US-PATENT-CLASS-371-8 ..... c 62 N90-19776 *
US-PATENT-CLASS-372-100 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-103 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-103 ..... c 36 N87-23960 *
US-PATENT-CLASS-372-108 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-18 ..... c 36 N87-23960 *
US-PATENT-CLASS-372-20 ..... c 36 N84-22943 *
US-PATENT-CLASS-372-20 ..... c 36 N87-25567 *
US-PATENT-CLASS-372-25 ..... c 33 N83-34189 *
US-PATENT-CLASS-372-28 ..... c 36 N84-22943 *
US-PATENT-CLASS-372-32 ..... c 36 N84-22943 *
US-PATENT-CLASS-372-32 ..... c 33 N85-34333 *
US-PATENT-CLASS-372-38 ..... c 36 N85-30305 *
US-PATENT-CLASS-372-43 ..... c 36 N87-23960 *
US-PATENT-CLASS-372-46 ..... c 36 N85-30305 *
US-PATENT-CLASS-372-4 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-4 ..... c 36 N87-25567 *
US-PATENT-CLASS-372-50 ..... c 36 N85-30305 *
US-PATENT-CLASS-372-55 ..... c 36 N84-16542 *
US-PATENT-CLASS-372-56 ..... c 36 N82-28616 *
US-PATENT-CLASS-372-56 ..... c 36 N83-10417 *
US-PATENT-CLASS-372-58 ..... c 36 N82-28616 *
US-PATENT-CLASS-372-59 ..... c 36 N83-10417 *
US-PATENT-CLASS-372-59 ..... c 25 N90-20154 *
US-PATENT-CLASS-372-60 ..... c 36 N83-10417 *
US-PATENT-CLASS-372-61 ..... c 74 N87-14971 *
US-PATENT-CLASS-372-68 ..... c 36 N87-23961 *
US-PATENT-CLASS-372-69 ..... c 36 N87-25567 *
US-PATENT-CLASS-372-71 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-74 ..... c 35 N84-12444 *
US-PATENT-CLASS-372-79 ..... c 36 N84-16542 *
US-PATENT-CLASS-372-79 ..... c 36 N86-29204 *
US-PATENT-CLASS-372-81 ..... c 36 N87-23961 *
US-PATENT-CLASS-372-82 ..... c 36 N82-28616 *
US-PATENT-CLASS-372-93 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-93 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-94 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-95 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-98 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-99 ..... c 36 N87-25567 *
US-PATENT-CLASS-373-10 ..... c 35 N87-23944 *
US-PATENT-CLASS-373-15 ..... c 35 N87-23944 *
US-PATENT-CLASS-374-115 ..... c 35 N86-19580 *
US-PATENT-CLASS-374-117 ..... c 52 N85-30618 *
US-PATENT-CLASS-374-120 ..... c 35 N86-19580 *
US-PATENT-CLASS-374-122 ..... c 06 N83-10040 *
US-PATENT-CLASS-374-122 ..... c 43 N85-21723 *
US-PATENT-CLASS-374-122 ..... c 32 N87-21206 *
US-PATENT-CLASS-374-123 ..... c 06 N83-10040 *
US-PATENT-CLASS-374-124 ..... c 36 N90-17132 *
US-PATENT-CLASS-374-126 ..... c 36 N90-17132 *
US-PATENT-CLASS-374-130 ..... c 36 N90-17132 *
US-PATENT-CLASS-374-137 ..... c 36 N85-21639 *
US-PATENT-CLASS-374-160 ..... c 52 N85-30618 *
US-PATENT-CLASS-374-162R ... c 74 N82-30071 *
US-PATENT-CLASS-374-162 ..... c 35 N90-22770 *
US-PATENT-CLASS-374-163 ..... c 35 N86-19580 *
US-PATENT-CLASS-374-17 ..... c 35 N83-29650 *
US-PATENT-CLASS-374-183 ..... c 33 N86-32624 *
US-PATENT-CLASS-374-1 ..... c 35 N84-28019 *
US-PATENT-CLASS-374-208 ..... c 37 N85-21651 *
US-PATENT-CLASS-374-210 ..... c 37 N85-21651 *
US-PATENT-CLASS-374-36 ..... c 25 N88-29002 *

US-PATENT-CLASS-374-46 ..... c 34 N83-34221 *
US-PATENT-CLASS-374-46 ..... c 25 N86-19413 *
US-PATENT-CLASS-374-51 ..... c 39 N83-32081 *
US-PATENT-CLASS-374-8 ..... c 25 N86-19413 *
US-PATENT-CLASS-374-9 ..... c 32 N87-21206 *
US-PATENT-CLASS-375-101 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-102 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-104 ..... c 35 N81-19427 *
US-PATENT-CLASS-375-106 ..... c 60 N82-16747 *
US-PATENT-CLASS-375-106 ..... c 32 N82-31583 *
US-PATENT-CLASS-375-107 ..... c 32 N81-14186 *
US-PATENT-CLASS-375-110 ..... c 32 N87-21207 *
US-PATENT-CLASS-375-114 ..... c 60 N82-16747 *
US-PATENT-CLASS-375-115 ..... c 32 N81-15179 *
US-PATENT-CLASS-375-116 ..... c 60 N82-16747 *
US-PATENT-CLASS-375-120 ..... c 32 N84-27952 *
US-PATENT-CLASS-375-120 ..... c 32 N87-21207 *
US-PATENT-CLASS-375-120 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-1 ..... c 32 N81-15179 *
US-PATENT-CLASS-375-1 ..... c 35 N81-19427 *
US-PATENT-CLASS-375-1 ..... c 33 N81-33405 *
US-PATENT-CLASS-375-23 ..... c 32 N87-21207 *
US-PATENT-CLASS-375-34 ..... c 35 N81-19427 *
US-PATENT-CLASS-375-39 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-54 ..... c 33 N81-15192 *
US-PATENT-CLASS-375-54 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-54 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-58 ..... c 32 N81-15179 *
US-PATENT-CLASS-375-59 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-67 ..... c 33 N81-15192 *
US-PATENT-CLASS-375-76 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-77 ..... c 32 N84-27952 *
US-PATENT-CLASS-375-81 ..... c 32 N84-27952 *
US-PATENT-CLASS-375-88 ..... c 17 N87-16863 *
US-PATENT-CLASS-375-99 ..... c 35 N81-19427 *
US-PATENT-CLASS-376-127 ..... c 72 N87-21661 *
US-PATENT-CLASS-376-159 ..... c 25 N85-21279 *
US-PATENT-CLASS-377-111 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-114 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-116 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-120 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-126 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-39 ..... c 33 N89-14385 *
US-PATENT-CLASS-377-69 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-79 ..... c 60 N90-21525 *
US-PATENT-CLASS-378-104 ..... c 33 N85-29147 *
US-PATENT-CLASS-378-112 ..... c 33 N85-29147 *
US-PATENT-CLASS-378-2 ..... c 34 N83-19015 *
US-PATENT-CLASS-378-2 ..... c 74 N84-11920 *
US-PATENT-CLASS-378-43 ..... c 34 N83-19015 *
US-PATENT-CLASS-378-43 ..... c 74 N86-20124 *
US-PATENT-CLASS-378-51 ..... c 38 N90-23756 *
US-PATENT-CLASS-378-56 ..... c 74 N86-20126 *
US-PATENT-CLASS-378-58 ..... c 38 N90-23756 *
US-PATENT-CLASS-378-59 ..... c 74 N86-20126 *
US-PATENT-CLASS-378-85 ..... c 74 N86-20124 *
US-PATENT-CLASS-380-25 ..... c 60 N90-25583 *
US-PATENT-CLASS-380-45 ..... c 60 N90-25583 *
US-PATENT-CLASS-380-49 ..... c 60 N90-25583 *
US-PATENT-CLASS-381-183 ..... c 54 N89-29953 *
US-PATENT-CLASS-381-187 ..... c 54 N89-29953 *
US-PATENT-CLASS-382-31 ..... c 74 N89-14078 *
US-PATENT-CLASS-382-41 ..... c 60 N89-26400 *
US-PATENT-CLASS-382-42 ..... c 74 N86-21348 *
US-PATENT-CLASS-382-42 ..... c 60 N88-24169 *
US-PATENT-CLASS-382-42 ..... c 60 N89-26400 *
US-PATENT-CLASS-382-49 ..... c 60 N89-26400 *
US-PATENT-CLASS-384-101 ..... c 37 N85-33490 *
US-PATENT-CLASS-384-103 ..... c 37 N86-19606 *
US-PATENT-CLASS-384-106 ..... c 37 N86-19606 *
US-PATENT-CLASS-384-124 ..... c 27 N83-34043 *
US-PATENT-CLASS-384-99 ..... c 37 N85-33490 *
US-PATENT-CLASS-388-821 ..... c 33 N90-21951 *
US-PATENT-CLASS-39-25.35 ..... c 33 N86-20871 *
US-PATENT-CLASS-4-10 ..... c 54 N74-20725 *
US-PATENT-CLASS-4-110 ..... c 05 N72-22093 *
US-PATENT-CLASS-4-120 ..... c 54 N74-20725 *
US-PATENT-CLASS-4-144.3 ..... c 52 N81-24711 *
US-PATENT-CLASS-4-144.3 ..... c 52 N81-28740 *
US-PATENT-CLASS-4-496 ..... c 44 N84-34792 *
US-PATENT-CLASS-4-99 ..... c 05 N72-22093 *
US-PATENT-CLASS-40-28 ..... c 12 N71-18603 *
US-PATENT-CLASS-403-102 ..... c 37 N85-30336 *
US-PATENT-CLASS-403-102 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-105 ..... c 37 N79-14382 *
US-PATENT-CLASS-403-113 ..... c 37 N86-19605 *
US-PATENT-CLASS-403-119 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-120 ..... c 37 N86-19605 *
US-PATENT-CLASS-403-143 ..... c 18 N85-29991 *
US-PATENT-CLASS-403-146 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-15 ..... c 37 N85-30334 *
US-PATENT-CLASS-403-163 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-164 ..... c 54 N86-29507 * #
US-PATENT-CLASS-403-16 ..... c 37 N85-30334 *
US-PATENT-CLASS-403-171 ..... c 31 N81-25258 *
US-PATENT-CLASS-403-171 ..... c 31 N86-19479 *

US-PATENT-CLASS-403-171 ..... c 37 N88-29180 *
US-PATENT-CLASS-403-179 ..... c 27 N76-14254 *
US-PATENT-CLASS-403-217 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-217 ..... c 37 N88-29180 *
US-PATENT-CLASS-403-273 ..... c 37 N77-23482 *
US-PATENT-CLASS-403-282 ..... c 26 N83-10170 *
US-PATENT-CLASS-403-28 ..... c 27 N76-14264 *
US-PATENT-CLASS-403-29 ..... c 37 N85-29285 *
US-PATENT-CLASS-403-30 ..... c 18 N89-28554 *
US-PATENT-CLASS-403-312 ..... c 37 N86-27630 *
US-PATENT-CLASS-403-315 ..... c 37 N82-24494 *
US-PATENT-CLASS-403-317 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-317 ..... c 37 N85-21649 *
US-PATENT-CLASS-403-322 ..... c 18 N84-22605 *
US-PATENT-CLASS-403-322 ..... c 37 N85-30334 *
US-PATENT-CLASS-403-322 ..... c 37 N85-30336 *
US-PATENT-CLASS-403-322 ..... c 37 N90-17154 *
US-PATENT-CLASS-403-325 ..... c 37 N90-17154 *
US-PATENT-CLASS-403-328 ..... c 18 N86-20469 *
US-PATENT-CLASS-403-328 ..... c 37 N90-17154 *
US-PATENT-CLASS-403-331 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-340 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-341 ..... c 18 N87-27713 *
US-PATENT-CLASS-403-348 ..... c 37 N85-30336 *
US-PATENT-CLASS-403-366 ..... c 37 N86-27630 *
US-PATENT-CLASS-403-408.1 ... c 37 N86-27630 *
US-PATENT-CLASS-403-408 ..... c 37 N85-29285 *
US-PATENT-CLASS-403-4 ..... c 18 N89-28554 *
US-PATENT-CLASS-403-51 ..... c 18 N89-28553 *
US-PATENT-CLASS-403-56 ..... c 18 N85-29991 *
US-PATENT-CLASS-403-64 ..... c 31 N86-19479 *
US-PATENT-CLASS-403-76 ..... c 18 N85-29991 *
US-PATENT-CLASS-403-85 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-90 ..... c 18 N85-29991 *
US-PATENT-CLASS-405-188 ..... c 18 N90-20126 *
US-PATENT-CLASS-405-229 ..... c 44 N79-24432 *
US-PATENT-CLASS-405-263 ..... c 44 N79-24432 *
US-PATENT-CLASS-406-155 ..... c 37 N84-16561 *
US-PATENT-CLASS-407-117 ..... c 37 N81-14319 *
US-PATENT-CLASS-407-65 ..... c 37 N81-14319 *
US-PATENT-CLASS-408-1-R ..... c 31 N87-25491 *
US-PATENT-CLASS-408-1R ..... c 37 N81-14319 *
US-PATENT-CLASS-408-1R ..... c 31 N83-27058 *
US-PATENT-CLASS-408-111 ..... c 37 N74-25968 *
US-PATENT-CLASS-408-112 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-137 ..... c 15 N71-33518 *
US-PATENT-CLASS-408-186 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-193 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-195 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-61 ..... c 31 N83-27058 *
US-PATENT-CLASS-408-80 ..... c 37 N74-25968 *
US-PATENT-CLASS-409-131 ..... c 31 N83-27058 *
US-PATENT-CLASS-41R ..... c 27 N81-15104 *
US-PATENT-CLASS-410-156 ..... c 37 N85-34401 *
US-PATENT-CLASS-410-79 ..... c 18 N85-29991 *
US-PATENT-CLASS-410-90 ..... c 18 N85-29991 *
US-PATENT-CLASS-411-103 ..... c 37 N85-30335 *
US-PATENT-CLASS-411-108 ..... c 37 N85-30335 *
US-PATENT-CLASS-411-166 ..... c 37 N87-22978 *
US-PATENT-CLASS-411-353 ..... c 37 N83-19091 *
US-PATENT-CLASS-411-368 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-368 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-378 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-424 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-426 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-427 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-501 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-517 ..... c 37 N83-19091 *
US-PATENT-CLASS-411-531 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-531 ..... c 37 N87-22976 *
US-PATENT-CLASS-414-1 ..... c 37 N80-14396 *
US-PATENT-CLASS-414-1 ..... c 37 N81-14320 *
US-PATENT-CLASS-414-1 ..... c 54 N86-29818 *
US-PATENT-CLASS-414-217 ..... c 37 N85-29286 *
US-PATENT-CLASS-414-222 ..... c 37 N82-32731 *
US-PATENT-CLASS-414-226 ..... c 37 N82-32731 *
US-PATENT-CLASS-414-268 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-328 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-373 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-4 ..... c 37 N79-26551 *
US-PATENT-CLASS-414-4 ..... c 54 N81-28718 *
US-PATENT-CLASS-414-4 ..... c 37 N86-20789 *
US-PATENT-CLASS-414-5 ..... c 54 N86-29818 *
US-PATENT-CLASS-414-689 ..... c 18 N89-12621 *
US-PATENT-CLASS-414-6 ..... c 54 N79-24652 *
US-PATENT-CLASS-414-718 ..... c 37 N86-20789 *
US-PATENT-CLASS-414-718 ..... c 18 N89-12621 *
US-PATENT-CLASS-414-730 ..... c 37 N81-27519 *
US-PATENT-CLASS-414-730 ..... c 37 N86-19803 *
US-PATENT-CLASS-414-735 ..... c 54 N81-28718 *
US-PATENT-CLASS-414-735 ..... c 18 N88-23828 *
US-PATENT-CLASS-414-735 ..... c 18 N89-12621 *
US-PATENT-CLASS-414-739 ..... c 37 N82-32731 *
US-PATENT-CLASS-414-744A .... c 54 N81-28718 *
US-PATENT-CLASS-414-750 ..... c 18 N88-23828 *
US-PATENT-CLASS-414-753 ..... c 37 N86-20789 *

US-PATENT-CLASS-414-786 ..... c 05 N85-34722 *
US-PATENT-CLASS-414-7 ..... c 54 N86-28618 *
US-PATENT-CLASS-414-7 ..... c 54 N86-28620 *
US-PATENT-CLASS-414-8 ..... c 54 N86-28618 *
US-PATENT-CLASS-415-DIG.8 .... c 44 N82-24639 *
US-PATENT-CLASS-415-DIG.8 .... c 44 N84-23018 *
US-PATENT-CLASS-415-101 ..... c 44 N80-21828 *
US-PATENT-CLASS-415-115 ..... c 07 N79-10057 *
US-PATENT-CLASS-415-115 ..... c 34 N83-27144 *
US-PATENT-CLASS-415-115 ..... c 07 N84-33410 *
US-PATENT-CLASS-415-115 ..... c 34 N85-33433 *
US-PATENT-CLASS-415-116 ..... c 07 N79-10057 *
US-PATENT-CLASS-415-118 ..... c 35 N83-35338 *
US-PATENT-CLASS-415-136 ..... c 37 N88-23978 *
US-PATENT-CLASS-415-143 ..... c 34 N79-20335 *
US PATENT-CLASS-415-145 ..... c 07 N77-28118 *
US-PATENT-CLASS-415-145 ..... c 07 N82-32366 *
US-PATENT-CLASS-415-170-R ... c 37 N88-23978
US-PATENT-CLASS-415-174 ..... c 37 N79-18318 *
US-PATENT-CLASS-415-174 ..... c 37 N80-26658 *
US-PATENT-CLASS-415-174 ..... c 37 N82-19540 *
US-PATENT-CLASS-415-174 ..... c 27 N82-29453 *
US-PATENT-CLASS-415-174 ..... c 18 N83-20996 *
US-PATENT-CLASS-415-174 ..... c 37 N84-22957 *
US-PATENT-CLASS-415-174 ..... c 37 N86-20788 *
US-PATENT-CLASS-415-175 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-178 ..... c 07 N82-32366 *
US-PATENT-CLASS-415-178 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-180 ..... c 07 N77-23105 *
US-PATENT-CLASS-415-180 ..... c 37 N78-10467 *
US-PATENT-CLASS-415-181 ..... c 07 N74-28226 *
US-PATENT-CLASS-415-181 ..... c 07 N74-31270 *
US-PATENT-CLASS-415-196 ..... c 37 N80-26658 *
US-PATENT-CLASS-415-196 ..... c 37 N82-19540 *
US-PATENT-CLASS-415-197 ..... c 18 N83-20996 *
US-PATENT-CLASS-415-199 ..... c 05 N80-14107 *
US-PATENT-CLASS-415-1 ..... c 34 N79-20335 *
US-PATENT-CLASS-415-1 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-1 ..... c 37 N85-29262 *
US-PATENT-CLASS-415-2R ..... c 44 N82-24639 *
US-PATENT-CLASS-415-2R ..... c 44 N84-23018 *
US-PATENT-CLASS-415-200 ..... c 07 N79-14096 *
US-PATENT-CLASS-415-200 ..... c 37 N79-18318 *
US-PATENT-CLASS-415-201 ..... c 07 N79-14096 *
US-PATENT-CLASS-415-2 ..... c 44 N80-21828 *
US-PATENT-CLASS-415-47 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-68 ..... c 37 N85-29262 *
US-PATENT-CLASS-415-9 ..... c 44 N79-14527 *
US-PATENT-CLASS-416-104 ..... c 05 N77-17029 *
US-PATENT-CLASS-416-114 ..... c 05 N81-19087 *
US-PATENT-CLASS-416-114 ..... c 08 N87-23631 *
US-PATENT-CLASS-416-115 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-117 ..... c 37 N84-12493 *
US-PATENT-CLASS-416-121 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-127 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-130 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-132B .... c 37 N84-12493 *
US-PATENT-CLASS-416-132R .... c 05 N79-17847 *
US-PATENT-CLASS-416-135 ..... c 07 N77-32148 *
US-PATENT-CLASS-416-135 ..... c 37 N78-10468 *
US-PATENT-CLASS-416-138 ..... c 05 N77-17029 *
US-PATENT-CLASS-416-138 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-141 ..... c 05 N77-17029 *
US-PATENT-CLASS-416-141 ..... c 37 N78-10468 *
US-PATENT-CLASS-416-144 ..... c 35 N78-24515 *
US-PATENT-CLASS-416-145 ..... c 05 N85-29947 *
US-PATENT-CLASS-416-149 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-153 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-157B .... c 07 N79-14095 *
US-PATENT-CLASS-416-158 ..... c 08 N87-23631 *
US-PATENT-CLASS-416-160 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-160 ..... c 07 N79-14095 *
US-PATENT-CLASS-416-162 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-162 ..... c 07 N79-14095 *
US PATENT-CLASS-416-165 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-167 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-167 ..... c 07 N79-14095 *
US-PATENT-CLASS-416-190 ..... c 07 N77-32148 *
US-PATENT-CLASS-416-193A .... c 07 N77-32148 *
US-PATENT-CLASS-416-1 ..... c 34 N83-27144 *
US-PATENT-CLASS-416-200 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-214A .... c 07 N78-33101 *
US-PATENT-CLASS-416-220R .... c 07 N77-27116 *
US-PATENT-CLASS-416-220R .... c 37 N78-10468 *
US-PATENT-CLASS-416-221 ..... c 07 N77-27116 *
US-PATENT-CLASS-416-223-R ... c 02 N89-14224 *
US-PATENT-CLASS-416-223R .... c 02 N84-11136 *
US-PATENT-CLASS-416-223R .... c 02 N84-28732 *
US-PATENT-CLASS-416-223 ..... c 07 N74-28226 *
US-PATENT-CLASS-416-224 ..... c 24 N77-19170 *
US-PATENT-CLASS-416-224 ..... c 07 N84-22560 *
US-PATENT-CLASS-416-228 ..... c 05 N80-14107 *
US-PATENT-CLASS-416-230 ..... c 24 N77-19170 *
US-PATENT-CLASS-416-233 ..... c 07 N84-22560 *
US-PATENT-CLASS-416-237 ..... c 07 N74-28226 *
US-PATENT-CLASS-416-238 ..... c 05 N80-14107 *

US-PATENT-CLASS-416-23 ..... c 05 N85-29947 *
US-PATENT-CLASS-416-241A .... c 07 N77-32148 *
US-PATENT-CLASS-416-241R .... c 26 N84-33555 *
US-PATENT-CLASS-416-242 ..... c 02 N84-11136 *
US-PATENT-CLASS-416-242 ..... c 02 N84-28732 *
US-PATENT-CLASS-416-244A .... c 07 N78-33101 *
US-PATENT-CLASS-416-248 ..... c 37 N78-10468 *
US-PATENT-CLASS-416-25 ..... c 05 N75-12930 *
US-PATENT-CLASS-416-2 ..... c 44 N79-14527 *
US-PATENT-CLASS-416-500 ..... c 05 N81-19087 *
US-PATENT-CLASS-416-500 ..... c 05 N85-29947 *
US-PATENT-CLASS-416-51 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-61 ..... c 35 N78-24515 *
US-PATENT-CLASS-416-61 ..... c 37 N79-14382 *
US-PATENT-CLASS-416-88 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-89 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-92 ..... c 07 N84-22560 *
US-PATENT-CLASS-416-97A ..... c 34 N85-33433 *
US-PATENT-CLASS-416-97R ..... c 34 N83-27144 *
US-PATENT-CLASS-416-97R ..... c 07 N84-22560 *
US-PATENT-CLASS-416-9 ..... c 37 N90-23742 *
US-PATENT-CLASS-417-138 ..... c 35 N75-19611 *
US-PATENT-CLASS-417-141 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-152 ..... c 15 N72-22489 *
US-PATENT-CLASS-417-159 ..... c 09 N84-27749 *
US-PATENT-CLASS-417-15 ..... c 37 N83-26078 *
US-PATENT-CLASS-417-207 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-209 ..... c 34 N76-17317 *
US-PATENT-CLASS-417-209 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-225 ..... c 35 N78-10428 *
US-PATENT-CLASS-417-328 ..... c 37 N84-28081 *
US-PATENT-CLASS-417-36 ..... c 35 N75-19611 *
US-PATENT-CLASS-417-379 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-383 ..... c 37 N80-31790 *
US-PATENT-CLASS-417-391 ..... c 15 N73-24513 *
US-PATENT-CLASS-417-392 ..... c 37 N84-28081 *
US-PATENT-CLASS-417-395 ..... c 35 N75-19611 *
US-PATENT-CLASS-417-399 ..... c 44 N83-14693 *
US-PATENT-CLASS-417-417 ..... c 44 N83-28574 *
US-PATENT-CLASS-417-417 ..... c 31 N85-21404 *
US-PATENT-CLASS-417-462 ..... c 37 N84-28081 *
US-PATENT-CLASS-417-470 ..... c 35 N74-15126 *
US-PATENT-CLASS-417-471 ..... c 35 N74-15126 *
US-PATENT-CLASS-417-475 ..... c 37 N86-32736 *
US-PATENT-CLASS-417-488 ..... c 31 N85-21404 *
US-PATENT-CLASS-417-50 ..... c 15 N71-27084 *
US-PATENT-CLASS-417-52 ..... c 37 N74-27904 *
US-PATENT-CLASS-417-53 ..... c 31 N90-23587 *
US-PATENT-CLASS-417-572 ..... c 31 N90-23587 *
US-PATENT-CLASS-417-88 ..... c 44 N78-32539 *
US-PATENT-CLASS-418-113 ..... c 37 N82-16408 *
US-PATENT-CLASS-418-142 ..... c 37 N82-16408 *
US-PATENT-CLASS-419-24 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-36 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-37 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-8 ..... c 24 N90-23493 *
US-PATENT-CLASS-42-1F ..... c 11 N72-22247 *
US-PATENT-CLASS-42-101 ..... c 44 N86-25874 *
US-PATENT-CLASS-42-215 ..... c 44 N76-29704 *
US-PATENT-CLASS-420-445 ..... c 26 N82-31505 *
US-PATENT-CLASS-420-460 ..... c 26 N87-14482 *
US-PATENT-CLASS-420-529 ..... c 26 N89-26621 *
US-PATENT-CLASS-420-533 ..... c 26 N89-26621 *
US-PATENT-CLASS-420-54 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-551 ..... c 26 N82-31505 *
US-PATENT-CLASS-420-588 ..... c 26 N82-31505 *
US-PATENT-CLASS-420-62 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-79 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-80 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-81 ..... c 26 N89-14303 *
US-PATENT-CLASS-422-103 ..... c 35 N85-29213 *
US-PATENT-CLASS-422-109 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-111 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-121 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-126 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-129 ..... c 37 N85-21652 *
US-PATENT-CLASS-422-169 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-178 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-186 ..... c 25 N82-28368 *
US-PATENT-CLASS-422-186 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-187 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-198 ..... c 25 N82-28368 *
US-PATENT-CLASS-422-199 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-199 ..... c 37 N85-21652 *
US-PATENT-CLASS-422-200 ..... c 44 N83-10501 *
US-PATENT-CLASS-422-202 ..... c 44 N83-10501 *
US-PATENT-CLASS-422-208 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-224 ..... c 31 N80-18231 *
US-PATENT-CLASS-422-224 ..... c 44 N83-10501 *
US-PATENT-CLASS-422-235 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-242 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-245 ..... c 76 N90-23242 *
US-PATENT-CLASS-422-245 ..... c 76 N90-24169 *
US-PATENT-CLASS-422-246 ..... c 76 N80-32244 *
US-PATENT-CLASS-422-246 ..... c 33 N81-19389 *
US-PATENT-CLASS-422-246 ..... c 76 N82-30105 *

US-PATENT-CLASS-422-246 ..... c 76 N84-35113 *
US-PATENT-CLASS-422-246 ..... c 76 N86-24544 *
US-PATENT-CLASS-422-249 ..... c 33 N81-19389 *
US-PATENT-CLASS-422-249 ..... c 76 N84-35113 *
US-PATENT-CLASS-422-249 ..... c 76 N90-20896 *
US-PATENT-CLASS-422-251 ..... c 76 N88-14835 *
US-PATENT-CLASS-422-260 ..... c 76 N88-14835 *
US-PATENT-CLASS-422-27 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-30 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-34 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-3 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-40 ..... c 35 N82-11432 *
US-PATENT-CLASS-422-41 ..... c 52 N79-14749 *
US-PATENT-CLASS-422-48 ..... c 52 N79-14749 *
US-PATENT-CLASS-422-50 ..... c 76 N90-24188 *
US-PATENT-CLASS-422-52 ..... c 51 N80-16714 *
US-PATENT-CLASS-422-52 ..... c 51 N83-27569 *
US-PATENT-CLASS-422-62 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-68 ..... c 51 N80-27067 *
US-PATENT-CLASS-422-78 ..... c 25 N86-19413 *
US-PATENT-CLASS-422-80 ..... c 25 N82-12168 *
US-PATENT-CLASS-422-86 ..... c 35 N85-29213 *
US-PATENT-CLASS-422-88 ..... c 35 N85-29213 *
US-PATENT-CLASS-422-98 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-9 ..... c 45 N80-14579 *
US-PATENT-CLASS-423-DIG.10 . c 24 N84-22895 *
US-PATENT-CLASS-423-DIG.10 . c 31 N85-20153 *
US-PATENT-CLASS-423-131 ..... c 26 N81-15119 *
US-PATENT-CLASS-423-149 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-1 ..... c 26 N81-15119 *
US-PATENT-CLASS-423-231 ..... c 25 N74-12813 *
US-PATENT-CLASS-423-235 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-242 ..... c 45 N79-12584 *
US-PATENT-CLASS-423-249 ..... c 25 N76-27383 *
US-PATENT-CLASS-423-276 ..... c 23 N87-23696 *
US-PATENT-CLASS-423-284 ..... c 23 N87-23696 *
US-PATENT-CLASS-423-293 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-300 ..... c 44 N84-23018 *
US-PATENT-CLASS-423-33-5 ..... c 25 N79-28253 *
US-PATENT-CLASS-423-338 ..... c 76 N87-29380 *
US-PATENT-CLASS-423-339 ..... c 76 N87-29380 *
US-PATENT-CLASS-423-345 ..... c 76 N76-25049 *
US-PATENT-CLASS-423-345 ..... c 76 N79-23798 *
US-PATENT-CLASS-423-348 ..... c 76 N76-25049 *
US-PATENT-CLASS-423-348 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-350 ..... c 37 N80-10494 *
US-PATENT-CLASS-423-350 ..... c 31 N80-18231 *
US-PATENT-CLASS-423-352 ..... c 36 N76-18427 *
US-PATENT-CLASS-423-407 ..... c 24 N76-14203 *
US-PATENT-CLASS-423-414 ..... c 24 N84-22895 *
US-PATENT-CLASS-423-414 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-417 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-419P .... c 25 N83-33977 *
US-PATENT-CLASS-423-445 ..... c 24 N84-22895 *
US-PATENT-CLASS-423-445 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-445 ..... c 24 N85-21287 *
US-PATENT-CLASS-423-446 ..... c 15 N73-19457 *
US-PATENT-CLASS-423-446 ..... c 24 N84-22895 *
US-PATENT-CLASS-423-446 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-446 ..... c 24 N85-21287 *
US-PATENT-CLASS-423-447.2 ... c 24 N83-25789 *
US-PATENT-CLASS-423-447.6 ... c 24 N83-25789 *
US-PATENT-CLASS-423-447.7 ... c 24 N83-25789 *
US-PATENT-CLASS-423-449 ..... c 24 N84-22895 *
US-PATENT-CLASS-423-449 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-449 ..... c 24 N85-21287 *
US-PATENT-CLASS-423-539 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-540 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-542 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-579 ..... c 46 N74-13011 *
US-PATENT-CLASS-423-579 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-581 ..... c 25 N79-10162 *
US-PATENT-CLASS-423-582 ..... c 26 N78-32229 *
US-PATENT-CLASS-423-583 ..... c 26 N78-32229 *
US-PATENT-CLASS-423-600 ..... c 25 N83-33977 *
US-PATENT-CLASS-423-625 ..... c 15 N73-19457 *
US-PATENT-CLASS-423-625 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-644 ..... c 76 N76-18427 *
US-PATENT-CLASS-423-648R .... c 44 N77-22607 *
US-PATENT-CLASS-423-648R .... c 26 N78-24385 *
US-PATENT-CLASS-423-648R .... c 26 N80-20402 *
US-PATENT-CLASS-423-648R .... c 26 N81-14103 *
US-PATENT-CLASS-423-648R .... c 25 N82-28368 *
US-PATENT-CLASS-423-648R .... c 25 N83-29324 *
US-PATENT-CLASS-423-649 ..... c 25 N83-29324 *
US-PATENT-CLASS-423-650 ..... c 44 N76-18842 *
US-PATENT-CLASS-423-650 ..... c 44 N76-28700 *
US-PATENT-CLASS-423-650 ..... c 44 N76-29704 *
US-PATENT-CLASS-423-650 ..... c 44 N77-10836 *
US-PATENT-CLASS-423-650 ..... c 26 N80-10374 *
US-PATENT-CLASS-423-658.5 .... c 26 N81-15119 *
US-PATENT-CLASS-424-12 ..... c 25 N79-14199 *
US-PATENT-CLASS-424-12 ..... c 51 N80-16715 *
US-PATENT-CLASS-424-156 ..... c 25 N83-33977 *
US-PATENT-CLASS-424-180 ..... c 52 N75-15270 *
US-PATENT-CLASS-424-247 ..... c 52 N81-29704 *

US-PATENT-CLASS-424-267 ..... c 52 N81-29764 *
US-PATENT-CLASS-424-274 ..... c 52 N81-14813 *
US-PATENT-CLASS-424-274 ..... c 52 N81-29764 *
US-PATENT-CLASS-424-3 ..... c 51 N77-27677 *
US-PATENT-CLASS-425-DIG.43 . c 31 N75-13111 *
US-PATENT-CLASS-425-10 ..... c 31 N83-35176 *
US-PATENT-CLASS-425-113 ..... c 15 N73-13464 *
US-PATENT-CLASS-425-126 ..... c 31 N74-32920 *
US-PATENT-CLASS-425-133 ..... c 15 N73-13464 *
US-PATENT-CLASS-425-176 ..... c 15 N73-13464 *
US-PATENT-CLASS-425-288 ..... c 31 N74-32917 *
US-PATENT-CLASS-425-35 ..... c 31 N74-32917 *
US-PATENT-CLASS-425-378R .... c 31 N81-15154 *
US-PATENT-CLASS-425-4-R ..... c 27 N86-23894 *
US-PATENT-CLASS-425-405R .... c 31 N75-13111 *
US-PATENT-CLASS-425-415 ..... c 31 N74-32920 *
US-PATENT-CLASS-425-425 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-435 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-436 ..... c 31 N75-13111 *
US-PATENT-CLASS-425-468 ..... c 31 N75-13111 *
US-PATENT-CLASS-425-5 ..... c 34 N90-23700 *
US-PATENT-CLASS-425-6 ..... c 31 N81-33319 *
US-PATENT-CLASS-425-6 ..... c 27 N82-26442 *
US-PATENT-CLASS-425-6 ..... c 31 N83-31896 *
US-PATENT-CLASS-425-6 ..... c 31 N83-35176 *
US-PATENT-CLASS-425-6 ..... c 71 N84-28566 *
US-PATENT-CLASS-425-6 ..... c 26 N86-32551 *
US-PATENT-CLASS-425-6 ..... c 34 N90-23700 *
US-PATENT-CLASS-425-73 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-75 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-77 ..... c 15 N72-20446 *
US-PATENT-CLASS-425-7 ..... c 31 N83-35176 *
US-PATENT-CLASS-425-804 ..... c 34 N90-23700 *
US-PATENT-CLASS-427-113 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-113 ..... c 44 N78-24609 *
US-PATENT-CLASS-427-113 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-115 ..... c 25 N82-21266 *
US-PATENT-CLASS-427-115 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-115 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-123 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-124 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-125 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-125 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-126.6 .... c 26 N84-22734 *
US-PATENT-CLASS-427-126 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-126 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-130 ..... c 44 N77-32583 *
US-PATENT-CLASS-427-140 ..... c 27 N82-33520 *
US-PATENT-CLASS-427-140 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-160 ..... c 34 N77-18382 *
US-PATENT-CLASS-427-160 ..... c 44 N78-19599 *
US-PATENT-CLASS-427-162 ..... c 12 N76-15189 *
US-PATENT-CLASS-427-162 ..... c 27 N86-31727 *
US-PATENT-CLASS-427-164 ..... c 27 N78-14164 *
US-PATENT-CLASS-427-164 ..... c 27 N78-31233 *
US-PATENT-CLASS-427-164 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-164 ..... c 27 N80-24437 *
US-PATENT-CLASS-427-164 ..... c 27 N86-31727 *
US-PATENT-CLASS-427-165 ..... c 27 N86-31727 *
US-PATENT-CLASS-427-178 ..... c 24 N85-30027 *
US-PATENT-CLASS-427-191 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-191 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-192 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-196 ..... c 27 N76-15310 *
US-PATENT-CLASS-427-203 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-204 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-205 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-205 ..... c 27 N82-26441 *
US-PATENT-CLASS-427-215 ..... c 27 N78-32260 *
US-PATENT-CLASS-427-215 ..... c 24 N83-33950 *
US-PATENT-CLASS-427-216 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-217 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-219.2 .... c 27 N83-31855 *
US-PATENT-CLASS-427-221 ..... c 27 N81-19296 *
US-PATENT-CLASS-427-226 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-226 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-228 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-229 ..... c 25 N78-10225 *
US-PATENT-CLASS-427-229 ..... c 37 N87-21334 *
US-PATENT-CLASS-427-230 ..... c 37 N76-31524 *
US-PATENT-CLASS-427-240 ..... c 37 N81-33482 *
US-PATENT-CLASS-427-241 ..... c 24 N83-33950 *
US-PATENT-CLASS-427-243 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-244 ..... c 25 N82-21268 *
US-PATENT-CLASS-427-245 ..... c 27 N80-23452 *
US-PATENT-CLASS-427-245 ..... c 31 N86-29052 *
US-PATENT-CLASS-427-246 ..... c 25 N82-21268 *
US-PATENT-CLASS-427-247 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-248.1 .... c 27 N86-19458 *
US-PATENT-CLASS-427-248E .... c 37 N78-13436 *
US-PATENT-CLASS-427-248J .... c 44 N78-24609 *
US-PATENT-CLASS-427-248 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-249 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-249 ..... c 44 N78-24609 *
US-PATENT-CLASS-427-250 ..... c 12 N76-15189 *
US-PATENT-CLASS-427-250 ..... c 44 N76-28635 *

US-PATENT-CLASS-427-250 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-253 ..... c 27 N82-26441 *
US-PATENT-CLASS-427-255 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-261 ..... c 44 N78-25527 *
US-PATENT-CLASS-427-261 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-270 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-272 ..... c 31 N90-19427 *
US-PATENT-CLASS-427-272 ..... c 24 N90-25197 *
US-PATENT-CLASS-427-275 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-282 ..... c 24 N90-25197 *
US-PATENT-CLASS-427-287 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-290 ..... c 24 N90-25197 *
US-PATENT-CLASS-427-292 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-292 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-294 ..... c 27 N79-14214 *
US-PATENT-CLASS-427-294 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-296 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-2 ..... c 52 N90-20616 *
US-PATENT-CLASS-427-302 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-302 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-306 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-318 ..... c 26 N83-31795 *
US-PATENT-CLASS-427-322 ..... c 34 N77-18382 *
US-PATENT-CLASS-427-322 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-322 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-327 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-326 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-340 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-343 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-346 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-34 ..... c 34 N78-18355 *
US-PATENT-CLASS-427-34 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-34 ..... c 27 N82-29453 *
US-PATENT-CLASS-427-34 ..... c 27 N83-31855 *
US-PATENT-CLASS-427-34 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-34 ..... c 37 N84-22957 *
US-PATENT-CLASS-427-34 ..... c 26 N84-27855 *
US-PATENT-CLASS-427-350 ..... c 24 N79-25142 *
US-PATENT-CLASS-427-352 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-355 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-372.2 .... c 27 N82-33520 *
US-PATENT-CLASS-427-372.2 .... c 44 N84-28205 *
US-PATENT-CLASS-427-372A .... c 24 N79-25142 *
US-PATENT-CLASS-427-376.2 .... c 26 N85-35267 *
US-PATENT-CLASS-427-376.6 .... c 33 N84-16456 *
US-PATENT-CLASS-427-376.7 .... c 33 N84-16456 *
US-PATENT-CLASS-427-376A .... c 27 N78-32260 *
US-PATENT-CLASS-427-376B .... c 27 N78-32260 *
US-PATENT-CLASS-427-376B .... c 24 N79-17916 *
US-PATENT-CLASS-427-376C .... c 24 N79-17916 *
US-PATENT-CLASS-427-376 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-376 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-379 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-379 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-379 ..... c 27 N78-32260 *
US-PATENT-CLASS-427-379 ..... c 27 N81-19296 *
US-PATENT-CLASS-427-379 ..... c 24 N83-13171 *
US-PATENT-CLASS-427-379 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-379 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-37 ..... c 24 N85-30027 *
US-PATENT-CLASS-427-380 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-380 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-380 ..... c 27 N78-32260 *
US-PATENT-CLASS-427-380 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-380 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-384 ..... c 24 N83-13171 *
US-PATENT-CLASS-427-384 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-385.5 .... c 27 N81-14078 *
US-PATENT-CLASS-427-385.5 .... c 27 N86-20561 *
US-PATENT-CLASS-427-385B .... c 44 N78-25530 *
US-PATENT-CLASS-427-385C .... c 44 N78-25530 *
US-PATENT-CLASS-427-386 ..... c 24 N78-27180 *
US-PATENT-CLASS-427-387 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-387 ..... c 24 N83-13171 *
US-PATENT-CLASS-427-387 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-388.1 .... c 27 N86-20561 *
US-PATENT-CLASS-427-388A .... c 24 N78-27180 *
US-PATENT-CLASS-427-38 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-38 ..... c 27 N80-24437 *
US-PATENT-CLASS-427-38 ..... c 26 N85-29005 *
US-PATENT-CLASS-427-38 ..... c 27 N86-19458 *
US-PATENT-CLASS-427-38 ..... c 26 N86-14179 *
US-PATENT-CLASS-427-393.3 .... c 27 N82-16238 *
US-PATENT-CLASS-427-397.7 .... c 27 N82-33520 *
US-PATENT-CLASS-427-397.7 .... c 26 N85-35267 *
US-PATENT-CLASS-427-398A .... c 44 N79-11472 *
US-PATENT-CLASS-427-399 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-399 ..... c 36 N84-22944 *
US-PATENT-CLASS-427-39 ..... c 24 N85-21267 *
US-PATENT-CLASS-427-39 ..... c 31 N86-32587 *
US-PATENT-CLASS-427-400 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-402 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-402 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-405 ..... c 34 N78-18355 *
US-PATENT-CLASS-427-405 ..... c 27 N82-26441 *
US-PATENT-CLASS-427-405 ..... c 27 N83-31855 *

US-PATENT-CLASS-427-405 ..... c 26 N84-27855 *
US-PATENT-CLASS-427-407.1 .... c 27 N83-34039 *
US-PATENT-CLASS-427-40 ..... c 27 N78-31233 *
US-PATENT-CLASS-427-40 ..... c 27 N79-18052 *
US-PATENT-CLASS-427-40 ..... c 27 N80-24437 *
US-PATENT-CLASS-427-419.2 .... c 26 N83-31795 *
US-PATENT-CLASS-427-419.2 .... c 26 N84-27855 *
US-PATENT-CLASS-427-419A .... c 34 N78-18355 *
US-PATENT-CLASS-427-41 ..... c 27 N78-31233 *
US-PATENT-CLASS-427-41 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-41 ..... c 27 N79-14214 *
US-PATENT-CLASS-427-41 ..... c 27 N79-18052 *
US-PATENT-CLASS-427-41 ..... c 27 N80-23452 *
US-PATENT-CLASS-427-421 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-421 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-422 ..... c 24 N85-30027 *
US-PATENT-CLASS-427-423 ..... c 34 N78-18355 *
US-PATENT-CLASS-427-423 ..... c 27 N82-29453 *
US-PATENT-CLASS-427-423 ..... c 27 N83-31855 *
US-PATENT-CLASS-427-423 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-423 ..... c 37 N84-22957 *
US-PATENT-CLASS-427-425 ..... c 37 N82-24492 *
US-PATENT-CLASS-427-426 ..... c 27 N76-15310 *
US-PATENT-CLASS-427-426 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-427 ..... c 24 N78-24290 *
US-PATENT-CLASS-427-427 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-429 ..... c 27 N81-14078 *
US-PATENT-CLASS-427-436 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-437 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-443.2 .... c 25 N84-12262 *
US-PATENT-CLASS-427-443 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-44 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-44 ..... c 27 N80-32516 *
US-PATENT-CLASS-427-47 ..... c 44 N77-32583 *
US-PATENT-CLASS-427-47 ..... c 26 N85-29005 *
US-PATENT-CLASS-427-4 ..... c 51 N77-27677 *
US-PATENT-CLASS-427-53.1 ..... c 36 N84-22944 *
US-PATENT-CLASS-427-53.1 ..... c 37 N84-22957 *
US-PATENT-CLASS-427-531 ..... c 44 N82-28780 *
US-PATENT-CLASS-427-57 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-58 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-6 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-74 ..... c 44 N82-28780 *
US-PATENT-CLASS-427-75 ..... c 44 N78-25527 *
US-PATENT-CLASS-427-75 ..... c 44 N79-11468 *
US-PATENT-CLASS-427-75 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-75 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-84 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-85 ..... c 44 N85-20530 *
US-PATENT-CLASS-427-86 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-86 ..... c 44 N78-24609 *
US-PATENT-CLASS-427-88 ..... c 44 N79-31752 *
US-PATENT-CLASS-427-88 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-88 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-89 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-90 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-91 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-95 ..... c 25 N79-28253 *
US-PATENT-CLASS-427-96 ..... c 33 N84-16456 *
US-PATENT-CLASS-428-109 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-109 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-113 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-114 ..... c 24 N81-13999 *
US-PATENT-CLASS-428-114 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-116 ..... c 24 N78-10214 *
US-PATENT-CLASS-428-116 ..... c 24 N78-17149 *
US-PATENT-CLASS-428-116 ..... c 24 N86-28131 *
US-PATENT-CLASS-428-117 ..... c 37 N76-24575 *
US-PATENT-CLASS-428-117 ..... c 24 N78-15180 *
US-PATENT-CLASS-428-117 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-119 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-133 ..... c 37 N79-10422 *
US-PATENT-CLASS-428-137 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-138 ..... c 24 N78-10214 *
US-PATENT-CLASS-428-139 ..... c 25 N81-29180 *
US-PATENT-CLASS-428-140 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-141 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-141 ..... c 27 N82-28440 *
US-PATENT-CLASS-428-141 ..... c 27 N82-33521 *
US-PATENT-CLASS-428-155 ..... c 37 N84-22957 *
US-PATENT-CLASS-428-161 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-182 ..... c 18 N84-33450 *
US-PATENT-CLASS-428-182 ..... c 31 N89-12786 *
US-PATENT-CLASS-428-184 ..... c 18 N84-33450 *
US-PATENT-CLASS-428-189 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-192 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-193 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-202 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-212 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-212 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-212 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-214 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-216 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-218 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-218 ..... c 24 N83-13171 *
US-PATENT-CLASS-428-220 ..... c 15 N79-26100 *

US-PATENT-CLASS-428-241 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-241 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-242 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-244 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-245 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-245 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-246 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-246 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-247 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-247 ..... c 33 N82-26571 *
US-PATENT-CLASS-428-251 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-252 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-257 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-258 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-259 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-260 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-260 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-260 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-260 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-260 ..... c 27 N85-34281 *
US-PATENT-CLASS-428-262 ..... c 27 N87-14516 *
US-PATENT-CLASS-428-263 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-264 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-265 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-266 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-267 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-272 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-280 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-280 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-282 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-283 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-283 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-284 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-285 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-286 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-286 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-287 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-287 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-288 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-288 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-289 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-290 ..... c 24 N78-15180 *
US-PATENT-CLASS-428-290 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-290 ..... c 27 N87-28657 *
US-PATENT-CLASS-428-290 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-294 ..... c 24 N78-17150 *
US-PATENT-CLASS-428-294 ..... c 76 N83-34796 *
US-PATENT-CLASS-428-301 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-302 ..... c 24 N78-17150 *
US-PATENT-CLASS-428-303 ..... c 27 N76-15310 *
US-PATENT-CLASS-428-304.4 ... c 03 N84-33394 *
US-PATENT-CLASS-428-307.7 ... c 27 N82-29456 *
US-PATENT-CLASS-428-311.5 ... c 27 N82-29456 *
US-PATENT-CLASS-428-312.6 ... c 27 N82-29456 *
US-PATENT-CLASS-428-312.6 ... c 44 N83-34448 *
US-PATENT-CLASS-428-312 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-313 ..... c 24 N78-27180 *
US-PATENT-CLASS-428-317.9 ... c 27 N82-29456 *
US-PATENT-CLASS-428-319.1 ... c 03 N84-33394 *
US-PATENT-CLASS-428-325 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-325 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-325 ..... c 44 N83-34448 *
US-PATENT-CLASS-428-328 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-328 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-331 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-331 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-332 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-332 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-332 ..... c 24 N78-27180 *
US-PATENT-CLASS-428-332 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-332 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-332 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-334 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-336 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-336 ..... c 27 N86-31727 *
US-PATENT-CLASS-428-339 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-341 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-347 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-35.9 ... c 24 N90-25196 *
US-PATENT-CLASS-428-35 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-366 ..... c 24 N79-24062 *
US-PATENT-CLASS-428-367 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-367 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-367 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-367 ..... c 27 N87-28656 *
US-PATENT-CLASS-428-367 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-367 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-368 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-368 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-370 ..... c 27 N84-22745 *
US-PATENT-CLASS-428-375 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-375 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-375 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-376 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-379 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-390 ..... c 27 N89-29538 *

US-PATENT-CLASS-428-392 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-406 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-408 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-408 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-408 ..... c 27 N84-22745 *
US-PATENT-CLASS-428-408 ..... c 27 N85-34281 *
US-PATENT-CLASS-428-408 ..... c 24 N86-28131 *
US-PATENT-CLASS-428-408 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-408 ..... c 52 N90-20616 *
US-PATENT-CLASS-428-40 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-410 ..... c 23 N86-19376 *
US-PATENT-CLASS-428-411 ..... c 27 N78-14164 *
US-PATENT-CLASS-428-411 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-411 ..... c 27 N79-14214 *
US-PATENT-CLASS-428-412 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-412 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-412 ..... c 74 N78-32854 *
US-PATENT-CLASS-428-412 ..... c 27 N79-18052 *
US-PATENT-CLASS-428-413 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-413 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-413 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-413 ..... c 27 N85-34281 *
US-PATENT-CLASS-428-413 ..... c 27 N87-25469 *
US-PATENT-CLASS-428-414 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-416 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-417 ..... c 27 N87-25469 *
US-PATENT-CLASS-428-418 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-418 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-421 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-421 ..... c 15 N79-26100 *
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US-PATENT-CLASS-428-421 ..... c 76 N83-34796 *
US-PATENT-CLASS-428-421 ..... c 27 N87-16909 *
US-PATENT-CLASS-428-421 ..... c 27 N87-23736 *
US-PATENT-CLASS-428-422 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-422 ..... c 76 N83-34796 *
US-PATENT-CLASS-428-422 ..... c 27 N87-23736 *
US-PATENT-CLASS-428-422 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-423.5 ... c 03 N84-33394 *
US-PATENT-CLASS-428-425 ..... c 24 N77-26225 *
US-PATENT-CLASS-428-426 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-427 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-427 ..... c 44 N83-34448 *
US-PATENT-CLASS-428-428 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-428 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-428 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-428 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-428 ..... c 44 N83-34448 *
US-PATENT-CLASS-428-432 ..... c 27 N84-33589 *
US-PATENT-CLASS-428-432 ..... c 76 N85-33826 *
US-PATENT-CLASS-428-446 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-446 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-446 ..... c 27 N86-19458 *
US-PATENT-CLASS-428-447 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-447 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-447 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-447 ..... c 74 N78-32854 *
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US-PATENT-CLASS-428-447 ..... c 27 N87-23736 *
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US-PATENT-CLASS-428-44 ..... c 24 N86-18626 *
US-PATENT-CLASS-428-44 ..... c 27 N89-12741 *
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US-PATENT-CLASS-428-450 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-450 ..... c 26 N83-31795 *
US-PATENT-CLASS-428-450 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-451 ..... c 27 N79-18052 *
US-PATENT-CLASS-428-457 ..... c 27 N76-16229 *
US-PATENT-CLASS-428-457 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-457 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-457 ..... c 26 N82-30371 *
US-PATENT-CLASS-428-457 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-458 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-458 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-458 ..... c 27 N86-20561 *
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US-PATENT-CLASS-428-466 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-469 ..... c 27 N76-16229 *
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US-PATENT-CLASS-428-471 ..... c 26 N81-25188 *
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US-PATENT-CLASS-428-473.5 ... c 27 N86-31727 *
US-PATENT-CLASS-428-473.5 ... c 27 N87-16909 *
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US-PATENT-CLASS-428-522 ..... c 27 N78-14164 *
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US-PATENT-CLASS-428-63 ..... c 24 N83-13172 *
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US-PATENT-CLASS-428-71 c 27 N89-12741 *
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US-PATENT-CLASS-48-197-R c 25 N86-25428 *
US-PATENT-CLASS-48-197R c 44 N76-29704 *
US-PATENT-CLASS-48-197R c 44 N77-10636 *
US-PATENT-CLASS-48-212 c 44 N77-10636 *

US-PATENT-CLASS-48-215 ..... c 44 N76-29700 *
US-PATENT-CLASS-48-61 ..... c 44 N77-10636 *
US-PATENT-CLASS-48-61 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-63 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-75 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-89 ..... c 44 N82-16475 *
US-PATENT-CLASS-48-95 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-95 ..... c 44 N76-29700 *
US-PATENT-CLASS-48-99 ..... c 44 N82-16475 *
US-PATENT-CLASS-49-DIG.1 ..... c 34 N78-25350 *
US-PATENT-CLASS-49-171 ..... c 31 N81-19343 *
US-PATENT-CLASS-49-253 ..... c 18 N90-19278 *
US-PATENT-CLASS-49-479 ..... c 34 N78-25350 *
US-PATENT-CLASS-49-485 ..... c 34 N78-25350 *
US-PATENT-CLASS-49-68 ..... c 18 N74-22136 *
US-PATENT-CLASS-5-345 ..... c 05 N70-33285 *
US-PATENT-CLASS-5-459 ..... c 03 N84-33394 *
US-PATENT-CLASS-5-69 ..... c 05 N72-11085 *
US-PATENT-CLASS-5-81-R ..... c 85 N87-21755 *
US-PATENT-CLASS-5-82 ..... c 05 N71-23159 *
US-PATENT-CLASS-501-88 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-88 ..... c 27 N90-21177 *
US-PATENT-CLASS-501-91 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-91 ..... c 27 N90-21177 *
US-PATENT-CLASS-501-92 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-92 ..... c 27 N90-21177 *
US-PATENT-CLASS-501-93 ..... c 27 N88-29040 *
US-PATENT-CLASS-502-217 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-218 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-226 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-238 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-241 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-245 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-324 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-325 ..... c 25 N90-20180 *
US-PATENT-CLASS-502-339 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-339 ..... c 25 N90-20180 *
US-PATENT-CLASS-502-344 ..... c 25 N90-20180 *
US-PATENT-CLASS-502-352 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-36 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-53 ..... c 25 N90-20154 *
US-PATENT-CLASS-51-170 ..... c 15 N71-26134 *
US-PATENT-CLASS-51-216 ..... c 15 N72-20444 *
US-PATENT-CLASS-51-225 ..... c 37 N74-27905 *
US-PATENT-CLASS-51-234 ..... c 37 N74-27905 *
US-PATENT-CLASS-51-235 ..... c 37 N78-17383 *
US-PATENT-CLASS-51-235 ..... c 76 N80-18951 *
US-PATENT-CLASS-51-277 ..... c 74 N80-24149 *
US-PATENT-CLASS-51-281-R ..... c 31 N87-25491 *
US-PATENT-CLASS-51-283R ..... c 74 N80-24149 *
US-PATENT-CLASS-51-283 ..... c 46 N74-23069 *
US-PATENT-CLASS-51-320 ..... c 15 N72-20444 *
US-PATENT-CLASS-51-323 ..... c 15 N72-20444 *
US-PATENT-CLASS-51-57 ..... c 15 N71-22705 *
US-PATENT-CLASS-51-73R ..... c 37 N85-21650 *
US-PATENT-CLASS-51-97R ..... c 37 N74-27905 *
US-PATENT-CLASS-52-DIG.10 ..... c 18 N72-25540 *
US-PATENT-CLASS-52-DIG.10 ..... c 18 N72-25541 *
US-PATENT-CLASS-52-108 ..... c 15 N72-18477 *
US-PATENT-CLASS-52-109 ..... c 31 N81-27323 *
US-PATENT-CLASS-52-109 ..... c 31 N87-25492 *
US-PATENT-CLASS-52-109 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-110 ..... c 37 N86-25791 *
US-PATENT-CLASS-52-111 ..... c 31 N81-27324 *
US-PATENT-CLASS-52-111 ..... c 37 N86-25789 *
US-PATENT-CLASS-52-111 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-117 ..... c 44 N77-32582 *
US-PATENT-CLASS-52-126.5 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-127.7 ..... c 37 N85-30335 *
US-PATENT-CLASS-52-127 ..... c 15 N71-21531 *
US-PATENT-CLASS-52-169 ..... c 15 N72-25454 *
US-PATENT-CLASS-52-171 ..... c 11 N73-12265 *
US-PATENT-CLASS-52-171 ..... c 74 N85-29750 *
US-PATENT-CLASS-52-173R ..... c 44 N77-31601 *
US-PATENT-CLASS-52-173 ..... c 15 N72-25454 *
US-PATENT-CLASS-52-1 ..... c 15 N72-28496 *
US-PATENT-CLASS-52-232 ..... c 37 N81-14317 *
US-PATENT-CLASS-52-236 ..... c 30 N76-31562 *
US-PATENT-CLASS-52-249 ..... c 33 N71-25351 *
US-PATENT-CLASS-52-272 ..... c 31 N71-24035 *
US-PATENT-CLASS-52-284 ..... c 32 N73-13921 *
US-PATENT-CLASS-52-2 ..... c 32 N71-21045 *
US-PATENT-CLASS-52-2 ..... c 44 N77-32583 *
US-PATENT-CLASS-52-309.15 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-309.1 ..... c 31 N81-25258 *
US-PATENT-CLASS-52-391 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-3 ..... c 31 N71-16080 *
US-PATENT-CLASS-52-404 ..... c 33 N71-25351 *
US-PATENT-CLASS-52-404 ..... c 16 N84-22601 *
US-PATENT-CLASS-52-506 ..... c 16 N84-22601 *
US-PATENT-CLASS-52-506 ..... c 37 N85-30335 *
US-PATENT-CLASS-52-511 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-51 ..... c 44 N77-31601 *
US-PATENT-CLASS-52-573 ..... c 15 N72-28496 *
US-PATENT-CLASS-52-573 ..... c 18 N89-28554 *
US-PATENT-CLASS-52-594 ..... c 15 N72-25454 *
US-PATENT-CLASS-52-594 ..... c 32 N73-13921 *
US-PATENT-CLASS-52-632 ..... c 31 N81-27324 *
US-PATENT-CLASS-52-632 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-632 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-632 ..... c 31 N87-25492 *
US-PATENT-CLASS-52-637 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-637 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-645 ..... c 31 N81-25259 *
US-PATENT-CLASS-52-645 ..... c 37 N86-25789 *
US-PATENT-CLASS-52-645 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-646 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-646 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-646 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-646 ..... c 31 N87-25492 *
US-PATENT-CLASS-52-646 ..... c 18 N88-28958 *
US-PATENT-CLASS-52-646 ..... c 37 N88-29180 *
US-PATENT-CLASS-52-648 ..... c 11 N72-25287 *
US-PATENT-CLASS-52-648 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-648 ..... c 31 N81-25258 *
US-PATENT-CLASS-52-648 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-648 ..... c 37 N86-25789 *
US-PATENT-CLASS-52-648 ..... c 18 N88-28958 *
US-PATENT-CLASS-52-648 ..... c 37 N88-29180 *
US-PATENT-CLASS-52-648 ..... c 18 N89-28554 *
US-PATENT-CLASS-52-64 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-651 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-655 ..... c 11 N72-25287 *
US-PATENT-CLASS-52-705 ..... c 37 N76-19437 *
US-PATENT-CLASS-52-71 ..... c 18 N75-27040 *
US-PATENT-CLASS-52-726 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-726 ..... c 31 N81-25258 *
US-PATENT-CLASS-52-743 ..... c 37 N81-14317 *
US-PATENT-CLASS-52-745 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-745 ..... c 31 N81-27323 *
US-PATENT-CLASS-52-745 ..... c 37 N85-30335 *
US-PATENT-CLASS-52-749 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-758F ..... c 37 N76-19437 *
US-PATENT-CLASS-52-806 ..... c 24 N84-11214 *
US-PATENT-CLASS-52-808 ..... c 24 N84-11214 *
US-PATENT-CLASS-52-80 ..... c 18 N72-25540 *
US-PATENT-CLASS-52-80 ..... c 18 N72-25541 *
US-PATENT-CLASS-52-80 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-814 ..... c 18 N84-33450 *
US-PATENT-CLASS-52-814 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-814 ..... c 31 N89-12796 *
US-PATENT-CLASS-52-81 ..... c 37 N82-32732 *
US-PATENT-CLASS-52-821 ..... c 31 N89-12796 *
US-PATENT-CLASS-521-124 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-125 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-127 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-141 ..... c 51 N84-28361 *
US-PATENT-CLASS-521-142 ..... c 51 N84-28361 *
US-PATENT-CLASS-521-145 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-146 ..... c 25 N80-23383 *
US-PATENT-CLASS-521-149 ..... c 51 N84-28361 *
US-PATENT-CLASS-521-157 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-178 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-189 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-27 ..... c 27 N81-14076 *
US-PATENT-CLASS-521-32 ..... c 27 N81-14076 *
US-PATENT-CLASS-521-55 ..... c 25 N80-23383 *
US-PATENT-CLASS-521-62 ..... c 27 N81-14076 *
US-PATENT-CLASS-521-82 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-918 ..... c 25 N80-23383 *
US-PATENT-CLASS-521-97 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-98 ..... c 27 N90-16949 *
US-PATENT-CLASS-522-162 ..... c 27 N90-21198 *
US-PATENT-CLASS-522-165 ..... c 27 N90-21198 *
US-PATENT-CLASS-523-135 ..... c 27 N85-29044 *
US-PATENT-CLASS-523-205 ..... c 27 N83-19900 *
US-PATENT-CLASS-523-433 ..... c 24 N86-19380 *
US-PATENT-CLASS-523-434 ..... c 27 N86-27451 *
US-PATENT-CLASS-523-435 ..... c 24 N84-11213 *
US-PATENT-CLASS-523-440 ..... c 27 N83-34043 *
US-PATENT-CLASS-523-443 ..... c 27 N83-34043 *
US-PATENT-CLASS-523-445 ..... c 24 N86-19380 *
US-PATENT-CLASS-523-445 ..... c 27 N86-27451 *
US-PATENT-CLASS-523-454 ..... c 24 N84-34571 *
US-PATENT-CLASS-523-454 ..... c 27 N85-34282 *
US-PATENT-CLASS-523-456 ..... c 24 N84-11213 *
US-PATENT-CLASS-523-458 ..... c 24 N84-34571 *
US-PATENT-CLASS-523-458 ..... c 27 N85-34282 *
US-PATENT-CLASS-523-461 ..... c 27 N86-27451 *
US-PATENT-CLASS-523-66466 ... c 24 N86-19380 *
US-PATENT-CLASS-524-104 ..... c 27 N83-26240 *
US-PATENT-CLASS-524-171 ..... c 27 N84-22747 *
US-PATENT-CLASS-524-173 ..... c 27 N83-26240 *
US-PATENT-CLASS-524-230 ..... c 27 N83-26240 *
US-PATENT-CLASS-524-233 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-366 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-371 ..... c 27 N04-14324 *
US-PATENT-CLASS-524-376 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-386 ..... c 27 N85-29044 *
US-PATENT-CLASS-524-404 ..... c 27 N87-22845 *
US-PATENT-CLASS-524-436 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-437 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-494 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-496 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-500 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-503 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-530 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-548 ..... c 27 N86-20580 *
US-PATENT-CLASS-524-548 ..... c 27 N87-22845 *
US-PATENT-CLASS-524-564 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-587 ..... c 27 N85-29044 *
US-PATENT-CLASS-524-600 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-607 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-726 ..... c 27 N83-28240 *
US-PATENT-CLASS-524-786 ..... c 27 N83-19900 *
US-PATENT-CLASS-525-107 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-108 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-113 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-115 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-119 ..... c 27 N85-34281 *
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US-PATENT-CLASS-525-122 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-181 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-181 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-182 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-182 ..... c 27 N87-22845 *
US-PATENT-CLASS-525-183 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-183 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-184 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-184 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-186 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-186 ..... c 27 N86-20580 *
US-PATENT-CLASS-525-229 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-26 ..... c 27 N85-29043 *
US-PATENT-CLASS-525-282 ..... c 27 N84-14322 *
US-PATENT-CLASS-525-282 ..... c 27 N87-15304 *
US-PATENT-CLASS-525-287 ..... c 27 N84-14322 *
US-PATENT-CLASS-525-326 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-336 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-340 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-36 ..... c 27 N87-22848 *
US-PATENT-CLASS-525-374 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-375 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-384 ..... c 26 N81-15119 *
US-PATENT-CLASS-525-389 ..... c 27 N84-22750 *
US-PATENT-CLASS-525-397 ..... c 27 N86-18725 *
US-PATENT-CLASS-525-417 ..... c 27 N84-22745 *
US-PATENT-CLASS-525-420 ..... c 27 N85-20123 *
US-PATENT-CLASS-525-423 ..... c 24 N85-13180 *
US-PATENT-CLASS-525-425 ..... c 33 N88-23941 *
US-PATENT-CLASS-525-426 ..... c 27 N80-26446 *
US-PATENT-CLASS-525-426 ..... c 27 N84-22746 *
US-PATENT-CLASS-525-426 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-432 ..... c 27 N86-19456 *
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US-PATENT-CLASS-525-436 ..... c 27 N86-19456 *
US-PATENT-CLASS-525-436 ..... c 27 N87-28657 *
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US-PATENT-CLASS-525-474 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-47 ..... c 27 N85-29043 *
US-PATENT-CLASS-525-484 ..... c 24 N84-34571 *
US-PATENT-CLASS-525-4 ..... c 25 N80-23383 *
US-PATENT-CLASS-525-527 ..... c 24 N86-19380 *
US-PATENT-CLASS-525-532 ..... c 23 N85-28973 *
US-PATENT-CLASS-525-534 ..... c 27 N84-22747 *
US-PATENT-CLASS-525-534 ..... c 23 N85-28973 *
US-PATENT-CLASS-525-534 ..... c 27 N86-27450 *
US-PATENT-CLASS-525-535 ..... c 27 N84-22747 *
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US-PATENT-CLASS-525-536 ..... c 27 N84-22747 *
US-PATENT-CLASS-525-56 ..... c 23 N81-29160 *
US-PATENT-CLASS-525-61 ..... c 27 N81-24257 *
US-PATENT-CLASS-525-61 ..... c 23 N81-29160 *
US-PATENT-CLASS-525-61 ..... c 25 N83-13188 *
US-PATENT-CLASS-525-903 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-905 ..... c 27 N86-18725 *
US-PATENT-CLASS-526-13 ..... c 27 N76-32256 *
US-PATENT-CLASS-526-193 ..... c 27 N76-15276 *
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US-PATENT-CLASS-526-201 ..... c 25 N81-19242 *
US-PATENT-CLASS-526-204 ..... c 25 N85-30039 *
US-PATENT-CLASS-526-217 ..... c 27 N85-21350 *
US-PATENT-CLASS-526-217 ..... c 25 N85-30039 *
US-PATENT-CLASS-526-225 ..... c 27 N76-15276 *
US-PATENT-CLASS-526-23 ..... c 27 N76-32256 *
US-PATENT-CLASS-526-255 ..... c 27 N76-24405 *
US-PATENT-CLASS-526-259 ..... c 27 N83-34040 *
US-PATENT-CLASS-526-261 ..... c 27 N80-24438 *
US-PATENT-CLASS-526-262 ..... c 27 N81-27272 *
US-PATENT-CLASS-526-262 ..... c 27 N84-22745 *
US-PATENT-CLASS-526-262 ..... c 27 N84-27689 *
US-PATENT-CLASS-526-262 ..... c 27 N85-21347 *
US-PATENT-CLASS-526-262 ..... c 27 N85-21350 *
US-PATENT-CLASS-526-262 ..... c 27 N85-21351 *
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US-PATENT-CLASS-526-262 ..... c 27 N86-20580 *

US-PATENT-CLASS-526-262 ..... c 24 N86-21590 *
US-PATENT-CLASS-526-262 ..... c 27 N87-22845 *
US-PATENT-CLASS-526-262 ..... c 23 N90-21118 *
US-PATENT-CLASS-526-265 ..... c 27 N86-20560 *
US-PATENT-CLASS-526-265 ..... c 24 N86-28131 *
US-PATENT-CLASS-526-274 ..... c 27 N85-21347 *
US-PATENT-CLASS-526-275 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-275 ..... c 27 N80-24436 *
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US-PATENT-CLASS-526-278 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-278 ..... c 27 N80-24436 *
US-PATENT-CLASS-526-27 ..... c 27 N78-32256 *
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US-PATENT-CLASS-526-285 ..... c 27 N86-27450 *
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US-PATENT-CLASS-526-329.2 .... c 27 N85-29043 *
US-PATENT-CLASS-526-49 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-50 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-60 ..... c 27 N90-23544 *
US-PATENT-CLASS-526-7 ..... c 44 N79-25481 *
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US-PATENT-CLASS-526-914 ..... c 28 N81-15119 *
US-PATENT-CLASS-526-9 ..... c 44 N79-25481 *
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US-PATENT-CLASS-528-103 ..... c 24 N86-19380 *
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US-PATENT-CLASS-528-106 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-108 ..... c 27 N87-25469 *
US-PATENT-CLASS-528-10 ..... c 27 N86-29040 *
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US-PATENT-CLASS-528-167 ..... c 27 N85-21347 *
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US-PATENT-CLASS-528-174 ..... c 27 N86-27450 *
US-PATENT-CLASS-528-176 ..... c 27 N86-27450 *
US-PATENT-CLASS-528-176 ..... c 27 N87-22848 *
US-PATENT-CLASS-528-176 ..... c 27 N90-21198 *
US-PATENT-CLASS-528-179 ..... c 27 N86-19456 *
US-PATENT-CLASS-528-180 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-182 ..... c 27 N86-19456 *
US-PATENT-CLASS-528-183 ..... c 27 N84-22746 *
US-PATENT-CLASS-528-183 ..... c 27 N85-20123 *
US-PATENT-CLASS-528-183 ..... c 27 N86-29039 *
US-PATENT-CLASS-528-184 ..... c 27 N87-22848 *
US-PATENT-CLASS-528-185 ..... c 27 N84-22749 *
US-PATENT-CLASS-528-185 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-185 ..... c 27 N86-19456 *
US-PATENT-CLASS-528-185 ..... c 27 N90-23546 *
US-PATENT-CLASS-528-186 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-187 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-188 ..... c 23 N90-19300 *
US-PATENT-CLASS-528-189 ..... c 27 N90-23546 *
US-PATENT-CLASS-528-192 ..... c 27 N85-20123 *
US-PATENT-CLASS-528-192 ..... c 27 N87-22848 *

US-PATENT-CLASS-528-193 ..... c 27 N87-22848 *
US-PATENT-CLASS-528-207 ..... c 27 N80-16158 *
US-PATENT-CLASS-528-207 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-208 ..... c 27 N80-16158 *
US-PATENT-CLASS-528-208 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-210 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-211 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-212 ..... c 27 N90-23545 *
US-PATENT-CLASS-528-220 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-220 ..... c 27 N84-22746 *
US-PATENT-CLASS-528-220 ..... c 27 N85-20123 *
US-PATENT-CLASS-528-220 ..... c 24 N86-25416 *
US-PATENT-CLASS-528-220 ..... c 27 N86-31726 * #
US-PATENT-CLASS-528-220 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-220 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-221 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-222 ..... c 27 N81-29229 *
US-PATENT-CLASS-528-222 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-222 ..... c 27 N83-34041 *
US-PATENT-CLASS-528-222 ..... c 27 N86-29039 *
US-PATENT-CLASS-528-223 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-225 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-225 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-226 ..... c 27 N83-34041 *
US-PATENT-CLASS-528-226 ..... c 27 N85-20124 *
US-PATENT-CLASS-528-226 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-227 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-228 ..... c 27 N81-27272 *
L S-PATENT-CLASS-528-228 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-228 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-228 ..... c 27 N84-22745 *
US-PATENT-CLASS-528-228 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-229 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-229 ..... c 27 N79-33316 *
US-PATENT-CLASS-528-229 ..... c 27 N81-29229 *
US-PATENT-CLASS-528-229 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-229 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-229 ..... c 27 N85-21350 *
US-PATENT-CLASS-528-229 ..... c 27 N85-21351 *
US-PATENT-CLASS-528-229 ..... c 27 N85-21352 *
US-PATENT-CLASS-528-229 ..... c 27 N85-34280 *
US-PATENT-CLASS-528-229 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-229 ..... c 27 N86-19457 *
US-PATENT-CLASS-528-229 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-229 ..... c 27 N87-22847 *
US-PATENT-CLASS-528-229 ..... c 23 N90-19300 *
US-PATENT-CLASS-528-239 ..... c 27 N85-20124 *
US-PATENT-CLASS-528-241 ..... c 27 N85-20124 *
US-PATENT-CLASS-528-258 ..... c 27 N85-20124 *
US-PATENT-CLASS-528-25 ..... c 27 N84-22747 *
US-PATENT-CLASS-528-26 ..... c 27 N84-22747 *
US-PATENT-CLASS-528-26 ..... c 27 N87-14516 *
US-PATENT-CLASS-528-271 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-279 ..... c 27 N85-20124 *
US-PATENT-CLASS-528-288 ..... c 27 N85-29043 *
US-PATENT-CLASS-528-289 ..... c 27 N85-29043 *
US-PATENT-CLASS-528-303 ..... c 27 N85-29043 *
US-PATENT-CLASS-528-304 ..... c 27 N85-29043 *
US-PATENT-CLASS-528-308 ..... c 27 N90-21198 *
US-PATENT-CLASS-528-30 ..... c 27 N86-29040 *
US-PATENT-CLASS-528-30 ..... c 27 N90-21177 *
US-PATENT-CLASS-528-310 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-310 ..... c 27 N81-24256 *
US-PATENT-CLASS-528-310 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-310 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-310 ..... c 23 N86-19376 *
US-PATENT-CLASS-528-314 ..... c 25 N85-30039 *
US-PATENT-CLASS-528-315 ..... c 27 N85-21350 *
US-PATENT-CLASS-528-321 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-321 ..... c 24 N86-25416 *
US-PATENT-CLASS-528-321 ..... c 27 N86-31726 * #
US-PATENT-CLASS-528-321 ..... c 27 N87-16909 *
US-PATENT-CLASS-528-321 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-322 ..... c 27 N81-17260 *
US-PATENT-CLASS-528-322 ..... c 27 N84-22745 *
US-PATENT-CLASS-528-322 ..... c 27 N84-27885 *
US-PATENT-CLASS-528-322 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-322 ..... c 27 N85-21350 *
US-PATENT-CLASS-528-322 ..... c 27 N85-21351 *
US-PATENT-CLASS-528-322 ..... c 27 N85-21352 *
US-PATENT-CLASS-528-322 ..... c 25 N85-28982 *
US-PATENT-CLASS-528-322 ..... c 25 N85-30039 *
US-PATENT-CLASS-528-322 ..... c 27 N86-19457 *
US-PATENT-CLASS-528-322 ..... c 24 N86-25416 *
US-PATENT-CLASS-528-322 ..... c 27 N86-31726 * #
US-PATENT-CLASS-528-322 ..... c 27 N87-16909 *
US-PATENT-CLASS-528-322 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-322 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-322 ..... c 23 N90-21118 *
US-PATENT-CLASS-528-327 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-327 ..... c 27 N86-19455 *
US-PATENT-CLASS-528-327 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-328 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-331 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-331 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-331 ..... c 27 N87-21112 *

US-PATENT-CLASS-528-336 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-336 ..... c 27 N85-20123 *
US-PATENT-CLASS-528-336 ..... c 27 N85-21350 *
US-PATENT-CLASS-528-336 ..... c 27 N86-32568 * #
US-PATENT-CLASS-528-337 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-337 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-337 ..... c 27 N86-32568 * #
US-PATENT-CLASS-528-338 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-340 ..... c 27 N86-32568 * #
US-PATENT-CLASS-528-341 ..... c 27 N86-29039 *
US-PATENT-CLASS-528-342 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-342 ..... c 27 N84-27885 *
US-PATENT-CLASS-528-342 ..... c 27 N85-21350 *
US-PATENT-CLASS-528-342 ..... c 27 N85-21351 *
US-PATENT-CLASS-528-342 ..... c 27 N85-21352 *
US-PATENT-CLASS-528-342 ..... c 25 N85-28982 *
US-PATENT-CLASS-528-342 ..... c 27 N86-19457 *
US-PATENT-CLASS-528-345 ..... c 27 N84-22746 *
US-PATENT-CLASS-528-345 ..... c 27 N85-20123 *
US-PATENT-CLASS-528-345 ..... c 27 N86-19457 *
US-PATENT-CLASS-528-347 ..... c 27 N86-32568 * #
US-PATENT-CLASS-528-348 ..... c 27 N84-22748 *
US-PATENT-CLASS-528-351 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-352 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-352 ..... c 27 N85-34280 *
US-PATENT-CLASS-528-352 ..... c 27 N86-19456 *
US-PATENT-CLASS-528-352 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-352 ..... c 23 N90-19300 *
US-PATENT-CLASS-528-353 ..... c 27 N81-19296 *
US-PATENT-CLASS-528-353 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-353 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-353 ..... c 27 N85-34280 *
US-PATENT-CLASS-528-353 ..... c 27 N86-19456 *
US-PATENT-CLASS-528-353 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-353 ..... c 27 N90-16950 *
US-PATENT-CLASS-528-353 ..... c 23 N90-19300 *
US-PATENT-CLASS-528-353 ..... c 27 N90-23546 *
US-PATENT-CLASS-528-361 ..... c 24 N84-11213 *
US-PATENT-CLASS-528-362 ..... c 25 N81-14016 *
US-PATENT-CLASS-528-362 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-362 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-362 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-362 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-362 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-362 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-38 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-394 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-399 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-399 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-399 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-399 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-401 ..... c 27 N79-22300 *
US-PATENT-CLASS-528-401 ..... c 25 N81-14016 *
US-PATENT-CLASS-528-401 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-401 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-401 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-401 ..... c 23 N82-28353 *
US-PATENT-CLASS-528-401 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-402 ..... c 25 N82-24312 *
US-PATENT-CLASS-528-406 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-407 ..... c 24 N84-34571 *
US-PATENT-CLASS-528-407 ..... c 27 N85-34281 *
US-PATENT-CLASS-528-407 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-407 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-413 ..... c 27 N87-24564 *
US-PATENT-CLASS-528-422 ..... c 27 N79-22300 *
US-PATENT CLASS-528-422 ..... c 25 N81-14016 *
US-PATENT-CLASS-528-422 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-422 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-422 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-422 ..... c 23 N82-28353 *
US-PATENT-CLASS-528-422 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-423 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-423 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-481 ..... c 27 N80-24438 *
US-PATENT-CLASS-528-4 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-4 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-4 ..... c 27 N86-29040 *
US-PATENT-CLASS-528-4 ..... c 27 N90-21177 *
US-PATENT-CLASS-528-6 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-6 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-6 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-72 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-73 ..... c 25 N80-16116 *
US-PATENT-CLASS-528-73 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-7 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-7 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-86 ..... c 23 N85-28073 *
US-PATENT-CLASS-528-92 ..... c 24 N84-34571 *
US-PATENT-CLASS-528-92 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-94 ..... c 27 N85-34281 *
US-PATENT-CLASS-53-102 ..... c 15 N71-21528 *
US-PATENT-CLASS-53-112A ..... c 15 N73-27405 *
US-PATENT-CLASS-53-22A ..... c 15 N73-27406 *
US-PATENT-CLASS-53-22 ..... c 15 N71-23256 *
US-PATENT-CLASS-53-429 ..... c 09 N82-29330 *

US-PATENT-CLASS-53-9 ..... c 37 N77-23482 *
US-PATENT-CLASS-530-362 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-363 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-364 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-387 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-422 ..... c 52 N90-20616 *
US-PATENT-CLASS-536-105 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-536-85 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-56 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-58 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-84 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-117 ..... c 27 N81-17260 *
US-PATENT-CLASS-544-193 ..... c 27 N78-15276 *
US-PATENT-CLASS-544-193 ..... c 27 N79-26307 *
US-PATENT-CLASS-544-195 ..... c 27 N78-32256 *
US-PATENT-CLASS-544-215 ..... c 27 N84-22744 *
US-PATENT-CLASS-546-262 ..... c 27 N87-22847 *
US-PATENT-CLASS-546-264 ..... c 27 N87-22847 *
US-PATENT-CLASS-546-339 ..... c 27 N87-16908 *
US-PATENT-CLASS-546-346 ..... c 27 N87-16908 *
US-PATENT-CLASS-546-350 ..... c 27 N87-16908 *
US-PATENT-CLASS-547-131 ..... c 23 N82-28353 *
US-PATENT-CLASS-548-400 ..... c 23 N90-21118 *
US-PATENT-CLASS-548-413 ..... c 27 N83-31854 *
US-PATENT-CLASS-548-413 ..... c 23 N86-19376 *
US-PATENT-CLASS-548-413 ..... c 27 N87-23751 *
US-PATENT-CLASS-548-415 ..... c 27 N83-31854 *
US-PATENT-CLASS-548-415 ..... c 27 N84-22745 *
US-PATENT-CLASS-548-520 ..... c 27 N90-23545 *
US-PATENT-CLASS-548-524 ..... c 23 N90-21118 *
US-PATENT-CLASS-549-241 ..... c 23 N86-26404 *
US-PATENT-CLASS-549-241 ..... c 25 N90-23497 *
US-PATENT-CLASS-549-335 ..... c 23 N85-33187 *
US-PATENT-CLASS-55-DIG.25 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-DIG.30 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-DIG.35 ..... c 54 N75-27761 *
US-PATENT-CLASS-55-DIG.42 ..... c 37 N85-29283 *
US-PATENT-CLASS-55-100 ..... c 35 N78-12390 *
US-PATENT-CLASS-55-100 ..... c 25 N78-25148 *
US-PATENT-CLASS-55-101 ..... c 25 N78-25148 *
US-PATENT-CLASS-55-105 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-105 ..... c 33 N90-20320 *
US-PATENT-CLASS-55-118 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-122 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-126 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-127 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-12 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-131 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-138 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-139 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-139 ..... c 33 N90-20320 *
US-PATENT-CLASS-55-145 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-15-9 ..... c 52 N79-14749 *
US-PATENT-CLASS-55-155 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-158 ..... c 18 N71-20742 *
US-PATENT-CLASS-55-158 ..... c 44 N77-22607 *
US-PATENT-CLASS-55-158 ..... c 25 N82-21269 *
US-PATENT-CLASS-55-159 ..... c 34 N74-30808 *
US-PATENT-CLASS-55-159 ..... c 37 N79-21345 *
US-PATENT-CLASS-55-159 ..... c 31 N90-20254 *
US-PATENT-CLASS-55-15 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-15 ..... c 71 N85-22104 *
US-PATENT-CLASS-55-160 ..... c 15 N71-15968 *
US-PATENT-CLASS-55-160 ..... c 29 N90-20236 *
US-PATENT-CLASS-55-160 ..... c 35 N90-22024 *
US-PATENT-CLASS-55-16 ..... c 06 N72-31140 *
US-PATENT-CLASS-55-179 ..... c 14 N71-17588 *
US-PATENT-CLASS-55-179 ..... c 54 N77-32722 *
US-PATENT-CLASS-55-182 ..... c 29 N90-20236 *
US-PATENT-CLASS-55-194 ..... c 35 N83-29652 *
US-PATENT-CLASS-55-197 ..... c 23 N77-17161 *
US-PATENT-CLASS-55-199 ..... c 34 N74-30808 *
US-PATENT-CLASS-55-202 ..... c 35 N83-29652 *
US-PATENT-CLASS-55-203 ..... c 35 N90-22024 *
US-PATENT-CLASS-55-204 ..... c 15 N71-23023 *
US-PATENT-CLASS-55-204 ..... c 44 N83-10501 *
US-PATENT-CLASS-55-204 ..... c 35 N90-22024 *
US-PATENT-CLASS-55-205 ..... c 29 N90-20236 *
US-PATENT-CLASS-55-208 ..... c 14 N71-18483 *
US-PATENT-CLASS-55-241 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-242 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-255 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-259 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-26-9 ..... c 35 N78-12390 *
US-PATENT-CLASS-55-261 ..... c 35 N78-18401 *
US-PATENT-CLASS-55-269 ..... c 54 N77-32722 *
US-PATENT-CLASS-55-270 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-277 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-277 ..... c 71 N85-22104 *
US-PATENT-CLASS-55-283 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-291 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-2 ..... c 25 N78-25148 *
US-PATENT-CLASS-55-2 ..... c 29 N81-14103 *
US-PATENT-CLASS-55-2 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-306 ..... c 29 N70-34788 *
US-PATENT-CLASS-55-35 ..... c 05 N70-41297 *

US-PATENT-CLASS-55-360 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-386 ..... c 35 N75-26334 *
US-PATENT-CLASS-55-38 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-3 ..... c 35 N78-12390 *
US-PATENT-CLASS-55-400 ..... c 11 N71-10777 *
US-PATENT-CLASS-55-407 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-408 ..... c 15 N70-40062 *
US-PATENT-CLASS-55-418 ..... c 15 N71-22721 *
US-PATENT-CLASS-55-43 ..... c 34 N74-30808 *
US-PATENT-CLASS-55-446 ..... c 15 N72-22489 *
US-PATENT-CLASS-55-464 ..... c 15 N72-22489 *
US-PATENT-CLASS-55-466 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-46 ..... c 31 N90-20254 *
US-PATENT-CLASS-55-493 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-498 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-502 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-510 ..... c 25 N74-12813 *
US-PATENT-CLASS-55-518 ..... c 25 N74-12813 *
US-PATENT-CLASS-55-521 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-521 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-523 ..... c 34 N76-27515 *
US-PATENT-CLASS-55-526 ..... c 34 N76-27515 *
US-PATENT-CLASS-55-528 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-52 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-55 ..... c 06 N72-31140 *
US-PATENT-CLASS-55-66 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-67 ..... c 23 N77-17161 *
US-PATENT-CLASS-55-67 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-68 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-6 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-72 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-73 ..... c 45 N79-12584 *
US-PATENT-CLASS-55-74 ..... c 23 N77-17161 *
US-PATENT-CLASS-55-75 ..... c 15 N71-26185 *
US-PATENT-CLASS-55-96 ..... c 35 N84-17555 *
US-PATENT-CLASS-556-402 ..... c 27 N90-21177 *
US-PATENT-CLASS-556-410 ..... c 25 N85-21280 *
US-PATENT-CLASS-556-436 ..... c 27 N86-21675 *
US-PATENT-CLASS-558-45 ..... c 23 N87-28605 *
US-PATENT-CLASS-558-190 ..... c 23 N87-28605 *
US-PATENT-CLASS-558-190 ..... c 23 N90-20133 *
US-PATENT-CLASS-558-193 ..... c 23 N87-28605 *
US-PATENT-CLASS-558-193 ..... c 23 N90-23475 *
US-PATENT-CLASS-558-80 ..... c 23 N88-24692 *
US-PATENT-CLASS-56-73 ..... c 74 N86-26190 *
US-PATENT-CLASS-560-104 ..... c 27 N87-16907 *
US-PATENT-CLASS-562-413 ..... c 25 N90-23497 *
US-PATENT-CLASS-562-415 ..... c 25 N90-23497 *
US-PATENT-CLASS-562-417 ..... c 25 N90-23497 *
US-PATENT-CLASS-564-113 ..... c 23 N86-19376 *
US-PATENT-CLASS-564-13 ..... c 23 N88-24692 *
US-PATENT-CLASS-564-15 ..... c 27 N86-32568 * #
US-PATENT-CLASS-564-229 ..... c 27 N81-24256 *
US-PATENT-CLASS-564-229 ..... c 23 N82-28353 *
US-PATENT-CLASS-564-243 ..... c 27 N84-22744 *
US-PATENT-CLASS-564-243 ..... c 23 N86-21582 *
US-PATENT-CLASS-564-315 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-323 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-330 ..... c 27 N87-22847 *
US-PATENT-CLASS-564-330 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-342 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-344 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-396 ..... c 27 N87-22847 *
US-PATENT-CLASS-564-396 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-430 ..... c 27 N87-22847 *
US-PATENT-CLASS-564-430 ..... c 23 N89-12667 *
US-PATENT-CLASS-568-14 ..... c 27 N86-32568 * #
US-PATENT-CLASS-568-2 ..... c 27 N82-16389 *
US-PATENT-CLASS-568-445 ..... c 23 N82-16174 *
US-PATENT-CLASS-568-497 ..... c 23 N82-16174 *
US-PATENT-CLASS-568-4 ..... c 27 N82-16389 *
US-PATENT-CLASS-568-4 ..... c 27 N84-22750 *
US-PATENT-CLASS-568-5 ..... c 27 N82-16389 *
US-PATENT-CLASS-568-5 ..... c 27 N84-22750 *
US-PATENT-CLASS-568-852 ..... c 27 N90-32514 *
US-PATENT-CLASS-568-861 ..... c 27 N90-32514 *
US-PATENT-CLASS-57-906 ..... c 37 N82-18601 *
US-PATENT-CLASS-570-123 ..... c 25 N82-24312 *
US-PATENT-CLASS-570-129 ..... c 25 N82-24312 *
US-PATENT-CLASS-58-24 ..... c 10 N71-26328 *
US-PATENT-CLASS-585-24 ..... c 27 N86-21675 *
US-PATENT-CLASS-60.39.08 ..... c 37 N79-11403 *
US-PATENT-CLASS-60-109 ..... c 33 N71-16104 *
US-PATENT-CLASS-60-1 ..... c 15 N72-33477 *
US-PATENT-CLASS-60-1 ..... c 15 N73-13467 *
US-PATENT-CLASS-60-200A ..... c 33 N72-25911 *
US-PATENT-CLASS-60-200A ..... c 33 N73-25952 *
US-PATENT-CLASS-60-200A ..... c 27 N78-17206 *
US-PATENT-CLASS-60-200R ..... c 20 N82-18314 *
US-PATENT-CLASS-60-200 ..... c 29 N71-14044 *
US-PATENT-CLASS-60-202 ..... c 29 N70-41922 *
US-PATENT-CLASS-60-202 ..... c 29 N71-10574 *
US-PATENT-CLASS-60-202 ..... c 25 N71-21694 *
US-PATENT-CLASS-60-202 ..... c 29 N71-21822 *
US-PATENT-CLASS-60-202 ..... c 29 N71-23081 *
US-PATENT-CLASS-60-202 ..... c 29 N71-23293 *

US-PATENT-CLASS-60-202 ..... c 29 N71-25213 *
US-PATENT-CLASS-60-202 ..... c 29 N71-26173 *
US-PATENT-CLASS-60-202 ..... c 29 N71-26642 *
US-PATENT-CLASS-60-202 ..... c 29 N71-26781 *
US-PATENT-CLASS-60-202 ..... c 29 N72-11709 *
US-PATENT-CLASS-60-202 ..... c 29 N72-22770 *
US-PATENT-CLASS-60-202 ..... c 29 N72-22771 *
US-PATENT-CLASS-60-202 ..... c 29 N73-24783 *
US-PATENT-CLASS-60-202 ..... c 25 N73-25780 *
US-PATENT-CLASS-60-202 ..... c 29 N73-27699 *
US-PATENT-CLASS-60-202 ..... c 20 N77-10148 *
US-PATENT-CLASS-60-202 ..... c 20 N77-20162 *
US-PATENT-CLASS-60-202 ..... c 20 N85-21256 *
US-PATENT-CLASS-60-202 ..... c 20 N89-25279 *
US-PATENT-CLASS-60-203.1 ..... c 20 N86-26369 *
US-PATENT-CLASS-60-203.1 ..... c 20 N87-16875 *
US-PATENT-CLASS-60-203.1 ..... c 09 N88-29939 *
US-PATENT-CLASS-60-203 ..... c 20 N80-14188 *
US-PATENT-CLASS-60-204 ..... c 07 N78-17055 *
US-PATENT-CLASS-60-204 ..... c 07 N78-18087 *
US-PATENT-CLASS-60-204 ..... c 44 N81-24519 *
US-PATENT-CLASS-60-204 ..... c 20 N90-19298 *
US-PATENT-CLASS-60-211 ..... c 29 N73-13773 *
US-PATENT-CLASS-60-214 ..... c 15 N74-27360 *
US-PATENT-CLASS-60-215 ..... c 06 N73-30097 *
US-PATENT-CLASS-60-215 ..... c 15 N74-27360 *
US-PATENT-CLASS-60-217 ..... c 12 N71-17631 *
US-PATENT-CLASS-60-225 ..... c 29 N71-10780 *
US-PATENT-CLASS-60-226A ..... c 07 N77-17059 *
US-PATENT-CLASS-60-226A ..... c 07 N79-14096 *
US-PATENT-CLASS-60-226A ..... c 07 N79-14097 *
US-PATENT-CLASS-60-226A ..... c 07 N82-26293 *
US-PATENT-CLASS-60-226R ..... c 07 N78-18086 *
US-PATENT-CLASS-60-226R ..... c 07 N77-14025 *
US-PATENT-CLASS-60-226R ..... c 07 N77-28118 *
US-PATENT-CLASS-60-226R ..... c 07 N78-17055 *
US-PATENT-CLASS-60-226R ..... c 07 N78-17056 *
US-PATENT-CLASS-60-226R ..... c 07 N78-25089 *
US-PATENT-CLASS-60-226R ..... c 07 N79-14096 *
US-PATENT-CLASS-60-226R ..... c 07 N81-19116 *
US-PATENT-CLASS-60-228 ..... c 07 N77-17059 *
US-PATENT-CLASS-60-230 ..... c 07 N78-27121 *
US-PATENT-CLASS-60-236 ..... c 07 N81-19116 *
US-PATENT-CLASS-60-238 ..... c 07 N81-19116 *
US-PATENT-CLASS-60-239 ..... c 07 N81-19116 *
US-PATENT-CLASS-60-23 ..... c 09 N71-26182 *
US-PATENT-CLASS-60-23 ..... c 15 N72-12408 *
US-PATENT-CLASS-60-23 ..... c 21 N72-31837 *
US-PATENT-CLASS-60-23 ..... c 15 N73-13467 *
US-PATENT-CLASS-60-240 ..... c 29 N71-24736 *
US-PATENT-CLASS-60-240 ..... c 29 N73-13773 *
US-PATENT-CLASS-60-240 ..... c 07 N80-18039 *
US-PATENT-CLASS-60-243 ..... c 33 N71-21507 *
US-PATENT-CLASS-60-243 ..... c 15 N71-27432 *
US-PATENT-CLASS-60-243 ..... c 29 N73-13773 *
US-PATENT-CLASS-60-243 ..... c 20 N79-21124 *
US-PATENT-CLASS-60-251 ..... c 29 N70-41311 *
US-PATENT-CLASS-60-251 ..... c 27 N71-21918 *
US-PATENT-CLASS-60-254 ..... c 29 N72-20756 *
US-PATENT-CLASS-60-254 ..... c 29 N73-24784 *
US-PATENT-CLASS-60-256 ..... c 29 N73-24784 *
US-PATENT-CLASS-60-257 ..... c 31 N70-41948 *
US-PATENT-CLASS-60-258 ..... c 15 N70-22192 * #
US-PATENT-CLASS-60-258 ..... c 29 N71-22983 *
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US-PATENT-CLASS-60-258 ..... c 15 N72-25495 *
US-PATENT-CLASS-60-258 ..... c 20 N74-13502 *
US-PATENT-CLASS-60-258 ..... c 20 N87-14420 *
US-PATENT-CLASS-60-259 ..... c 29 N70-41275 *
US-PATENT-CLASS-60-259 ..... c 20 N74-13502 *
US-PATENT-CLASS-60-259 ..... c 34 N77-30399 *
US-PATENT-CLASS-60-259 ..... c 20 N80-14188 *
US-PATENT-CLASS-60-259 ..... c 05 N81-26114 *
US-PATENT-CLASS-60-259 ..... c 20 N90-19298 *
US-PATENT-CLASS-60-25 ..... c 15 N73-24513 *
US-PATENT-CLASS-60-25 ..... c 37 N74-21080 *
US-PATENT-CLASS-60-260 ..... c 29 N70-41982 *
US-PATENT-CLASS-60-260 ..... c 29 N72-18798 *
US-PATENT-CLASS-60-260 ..... c 20 N90-19298 *
US-PATENT-CLASS-60-261 ..... c 37 N78-17384 *
US-PATENT-CLASS-60-262 ..... c 37 N78-17384 *
US-PATENT-CLASS-60-262 ..... c 07 N78-18087 *
US-PATENT-CLASS-60-262 ..... c 07 N83-33984 *
US-PATENT-CLASS-60-263 ..... c 29 N71-24321 *
US-PATENT-CLASS-60-263 ..... c 07 N77-28118 *
US-PATENT-CLASS-60-264 ..... c 07 N80-32392 *
US-PATENT-CLASS-60-264 ..... c 20 N89-25279 *
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US-PATENT-CLASS-60-265 ..... c 33 N72-25911 *
US-PATENT-CLASS-60-265 ..... c 33 N73-25952 *
US-PATENT-CLASS-60-265 ..... c 20 N76-14191 *
US-PATENT-CLASS-60-266 ..... c 33 N71-29952 *
US-PATENT-CLASS-60-266 ..... c 29 N72-23810 *
US-PATENT-CLASS-60-267 ..... c 33 N71-29053 *
US-PATENT-CLASS-60-267 ..... c 33 N72-25911 *

US-PATENT-CLASS-60-267 ..... c 33 N73-25952 *
US-PATENT-CLASS-60-267 ..... c 28 N73-32606 *
US-PATENT-CLASS-60-267 ..... c 20 N76-14191 *
US-PATENT-CLASS-60-267 ..... c 34 N79-13268 *
US-PATENT-CLASS-60-267 ..... c 34 N79-13269 *
US-PATENT-CLASS-60-267 ..... c 34 N80-24573 *
US-PATENT-CLASS-60-267 ..... c 44 N81-24519 *
US-PATENT-CLASS-60-267 ..... c 06 N81-26114 *
US-PATENT-CLASS-60-269 ..... c 07 N83-33864 *
US-PATENT-CLASS-60-26 ..... c 21 N72-31637 *
US-PATENT-CLASS-60-26 ..... c 03 N73-20040 *
US-PATENT-CLASS-60-271 ..... c 28 N72-11708 *
US-PATENT-CLASS-60-271 ..... c 28 N72-23810 *
US-PATENT-CLASS-60-271 ..... c 07 N78-17055 *
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US-PATENT-CLASS-60-271 ..... c 07 N83-33864 *
US-PATENT-CLASS-60-275 ..... c 35 N84-17555 *
US-PATENT-CLASS-60-291 ..... c 31 N73-13998 *
US-PATENT-CLASS-60-300 ..... c 28 N80-10374 *
US-PATENT-CLASS-60-303 ..... c 35 N84-17555 *
US-PATENT-CLASS-60-303 ..... c 37 N84-33808 *
US-PATENT-CLASS-60-311 ..... c 35 N84-17555 *
US-PATENT-CLASS-60-316 ..... c 34 N76-18364 *
US-PATENT-CLASS-60-35.3 ..... c 28 N70-33265 *
US-PATENT-CLASS-60-35.3 ..... c 28 N70-40367 *
US-PATENT-CLASS-60-35.54 ..... c 28 N70-34294 *
US-PATENT-CLASS-60-35.54 ..... c 28 N70-38645 *
US-PATENT-CLASS-60-35.54 ..... c 28 N71-29153 *
US-PATENT-CLASS-60-35.55 ..... c 28 N70-34162 *
US-PATENT-CLASS-60-35.55 ..... c 28 N70-38711 *
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US-PATENT-CLASS-60-35.5 ..... c 28 N70-34175 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-36802 *
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US-PATENT-CLASS-60-35.60 ..... c 28 N71-15659 *
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US-PATENT-CLASS-60-35.6 ..... c 28 N70-33374 *
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US-PATENT-CLASS-60-35.6 ..... c 28 N70-35381 *
US-PATENT-CLASS-60-35.6 ..... c 27 N70-35534 *
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US-PATENT-CLASS-60-35.6 ..... c 28 N70-36606 *
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US-PATENT-CLASS-60-35.6 ..... c 28 N71-15660 *
US-PATENT-CLASS-60-35.6 ..... c 14 N71-27186 *
US-PATENT-CLASS-60-36 ..... c 15 N72-33477 *
US-PATENT-CLASS-60-37 ..... c 15 N73-13467 *
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US-PATENT-CLASS-60-39.03 ..... c 07 N77-23106 *
US-PATENT-CLASS-60-39.03 ..... c 07 N80-18039 *
US-PATENT-CLASS-60-39.06 ..... c 07 N80-26298 *
US-PATENT-CLASS-60-39.06 ..... c 07 N81-29129 *
US-PATENT-CLASS-60-39.07 ..... c 44 N78-32539 *
US-PATENT-CLASS-60-39.07 ..... c 07 N82-32366 *
US-PATENT-CLASS-60-39.07 ..... c 07 N83-36029 *
US-PATENT-CLASS-60-39.07 ..... c 07 N86-20360 *
US-PATENT-CLASS-60-39.14 ..... c 44 N78-32539 *
US-PATENT-CLASS-60-39.14 ..... c 07 N79-10057 *
US-PATENT-CLASS-60-39.23 ..... c 20 N76-14190 *
US-PATENT-CLASS-60-39.23 ..... c 07 N85-35195 *
US-PATENT-CLASS-60-39.24 ..... c 07 N81-19115 *
US-PATENT-CLASS-60-39.27 ..... c 07 N80-18039 *
US-PATENT-CLASS-60-39.28R ... c 28 N73-19793 *
US-PATENT-CLASS-60-39.28R ... c 07 N77-23106 *
US-PATENT-CLASS-60-39.28R ... c 37 N78-10467 *
US-PATENT-CLASS-60-39.28R ... c 37 N78-24545 *
US-PATENT-CLASS-60-39.28R ... c 37 N79-11403 *
US-PATENT-CLASS-60-39.29 ..... c 20 N76-14190 *
US-PATENT-CLASS-60-39.29 ..... c 35 N76-14431 *
US-PATENT-CLASS-60-39.29 ..... c 07 N82-32366 *
US-PATENT-CLASS-60-39.29 ..... c 07 N84-33410 *
US-PATENT-CLASS-60-39.31 ..... c 07 N78-18066 *
US-PATENT-CLASS-60-39.31 ..... c 07 N79-14096 *
US-PATENT-CLASS-60-39.33 ..... c 44 N78-32539 *
US-PATENT-CLASS-60-39.36 ..... c 28 N71-20330 *
US-PATENT-CLASS-60-39.36 ..... c 28 N71-28915 *
US-PATENT-CLASS-60-39.46M ... c 20 N82-18314 *
US-PATENT-CLASS-60-39.465 ... c 35 N86-26369 *

US-PATENT-CLASS-60-39.46 ..... c 27 N71-15635 *
US-PATENT-CLASS-60-39.46 ..... c 15 N74-27360 *
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US-PATENT-CLASS-60-39.51R ... c 25 N76-10224 *
US-PATENT-CLASS-60-39.52 ..... c 07 N78-25089 *
US-PATENT-CLASS-60-39.65 ..... c 28 N71-28915 *
US-PATENT-CLASS-60-39.65 ..... c 23 N73-30665 *
US-PATENT-CLASS-60-39.65 ..... c 34 N78-27357 *
US-PATENT-CLASS-60-39.66 ..... c 15 N70-36411 *
US-PATENT-CLASS-60-39.66 ..... c 23 N73-30665 *
US-PATENT-CLASS-60-39.66 ..... c 07 N77-23106 *
US-PATENT-CLASS-60-39.66 ..... c 37 N78-10467 *
US-PATENT-CLASS-60-39.66 ..... c 37 N79-11403 *
US-PATENT-CLASS-60-39.69R ... c 34 N78-27357 *
US-PATENT-CLASS-60-39.72 ..... c 23 N73-30665 *
US-PATENT-CLASS-60-39.74A ... c 15 N72-25455 *
US-PATENT-CLASS-60-39.74R ... c 23 N73-30665 *
US-PATENT-CLASS-60-39.74R ... c 20 N76-14190 *
US-PATENT-CLASS-60-39.74 ..... c 28 N70-33241 *
US-PATENT-CLASS-60-39.74 ..... c 28 N72-17643 *
US-PATENT-CLASS-60-39.74 ..... c 20 N79-21125 *
US-PATENT-CLASS-60-39.82E ... c 20 N78-24275 *
US-PATENT-CLASS-60-39.83 ..... c 07 N84-33410 *
US-PATENT-CLASS-60-39-48 ..... c 28 N72-11709 *
US-PATENT-CLASS-60-415 ..... c 65 N87-21755 *
US-PATENT-CLASS-60-508 ..... c 44 N79-18443 *
US-PATENT-CLASS-60-516 ..... c 20 N75-24837 *
US-PATENT-CLASS-60-516 ..... c 44 N82-24640 *
US-PATENT-CLASS-60-517 ..... c 44 N76-29701 *
US-PATENT-CLASS-60-517 ..... c 37 N81-25370 *
US-PATENT-CLASS-60-518 ..... c 37 N81-14318 *
US-PATENT-CLASS-60-518 ..... c 37 N81-17432 *
US-PATENT-CLASS-60-51 ..... c 15 N71-27754 *
US-PATENT-CLASS-60-520 ..... c 37 N80-31790 *
US-PATENT-CLASS-60-524 ..... c 44 N81-17518 *
US-PATENT-CLASS-60-525 ..... c 37 N81-25370 *
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US-PATENT-CLASS-60-527 ..... c 37 N77-12402 *
US-PATENT-CLASS-60-527 ..... c 37 N77-19458 *
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US-PATENT-CLASS-60-527 ..... c 37 N86-19604 *
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US-PATENT-CLASS-60-53 ..... c 37 N77-22479 *
US-PATENT-CLASS-60-54.5 ..... c 15 N71-10658 *
US-PATENT-CLASS-60-560 ..... c 35 N78-10428 *
US-PATENT-CLASS-60-572 ..... c 44 N79-18443 *
US-PATENT-CLASS-60-574 ..... c 35 N78-10428 *
US-PATENT-CLASS-60-606 ..... c 28 N80-10374 *
US-PATENT-CLASS-60-606 ..... c 37 N84-33808 *
US-PATENT-CLASS-60-632 ..... c 20 N80-18097 *
US-PATENT-CLASS-60-634 ..... c 37 N87-23983 *
US-PATENT-CLASS-60-638 ..... c 37 N87-23983 *
US-PATENT-CLASS-60-641.12 ... c 44 N84-23016 *
US-PATENT-CLASS-60-641.14 ... c 44 N82-24640 *
US-PATENT-CLASS-60-641 ..... c 44 N75-32581 *
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US-PATENT-CLASS-60-659 ..... c 44 N75-32581 *
US-PATENT-CLASS-60-660 ..... c 44 N78-31667 *
US-PATENT-CLASS-60-671 ..... c 44 N78-32542 *
US-PATENT-CLASS-60-698 ..... c 44 N84-23018 *
US-PATENT-CLASS-60-716 ..... c 44 N84-23018 *
US-PATENT-CLASS-60-721 ..... c 71 N79-20827 *
US-PATENT-CLASS-60-721 ..... c 71 N83-32515 *
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US-PATENT-CLASS-60-721 ..... c 71 N84-23233 *
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US-PATENT-CLASS-60-726 ..... c 07 N82-32366 *
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US-PATENT-CLASS-60-732 ..... c 25 N90-11824 *
US-PATENT-CLASS-60-733 ..... c 07 N80-26298 *
US-PATENT-CLASS-60-736 ..... c 37 N84-22958 *
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US-PATENT-CLASS-60-757 ..... c 07 N84-24577 *
US-PATENT-CLASS-60-836 ..... c 24 N78-14096 *
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US-PATENT-CLASS-604-114 ..... c 52 N83-27577 *
US-PATENT-CLASS-604-151 ..... c 52 N83-27577 *
US-PATENT-CLASS-604-280 ..... c 52 N83-21785 *
US-PATENT-CLASS-604-368 ..... c 54 N84-11758 *

US-PATENT-CLASS-604-378 ..... c 54 N84-11758 *
US-PATENT-CLASS-604-396 ..... c 54 N84-11758 *
US-PATENT-CLASS-604-8 ..... c 52 N83-21785 *
US-PATENT-CLASS-61-83 ..... c 18 N74-22136 *
US-PATENT-CLASS-62-DIG.1 ..... c 34 N84-22903 *
US-PATENT-CLASS-62-DIG.5 ..... c 05 N81-26114 *
US-PATENT-CLASS-62-100 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-100 ..... c 28 N78-24365 *
US-PATENT-CLASS-62-121 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-126 ..... c 35 N84-28018 *
US-PATENT-CLASS-62-129 ..... c 31 N76-14284 *
US-PATENT-CLASS-62-12 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-148 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-15 ..... c 06 N70-34946 *
US-PATENT-CLASS-62-176 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-18 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-207 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-209 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-217 ..... c 31 N77-10229 *
US-PATENT-CLASS-62-235.1 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-236.3 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-239 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-244 ..... c 44 N82-26776 *
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US-PATENT-CLASS-62-264 ..... c 34 N84-22903 *
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US-PATENT-CLASS-62-2 ..... c 15 N71-15906 *
US-PATENT-CLASS-62-315 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-317 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-376 ..... c 31 N78-17237 *
US-PATENT-CLASS-62-376 ..... c 34 N79-20336 *
US-PATENT-CLASS-62-383 ..... c 33 N82-24419 *
US-PATENT-CLASS-62-384 ..... c 23 N71-24725 *
US-PATENT-CLASS-62-384 ..... c 31 N87-21159 *
US-PATENT-CLASS-62-3 ..... c 20 N75-24837 *
US-PATENT-CLASS-62-3 ..... c 34 N78-17335 *
US-PATENT-CLASS-62-3 ..... c 34 N83-29625 *
US-PATENT-CLASS-62-3 ..... c 31 N85-29082 *
US-PATENT-CLASS-62-40 ..... c 15 N71-24044 *
US-PATENT-CLASS-62-40 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-45 ..... c 15 N70-33323 *
US-PATENT-CLASS-62-45 ..... c 31 N70-41871 *
US-PATENT-CLASS-62-45 ..... c 33 N71-25351 *
US-PATENT-CLASS-62-45 ..... c 33 N71-28892 *
US-PATENT-CLASS-62-45 ..... c 15 N73-12486 *
US-PATENT-CLASS-62-45 ..... c 35 N74-15093 *
US-PATENT-CLASS-62-45 ..... c 31 N89-29578 *
US-PATENT-CLASS-62-467R ..... c 34 N84-22903 *
US-PATENT-CLASS-62-467 ..... c 33 N70-37979 *
US-PATENT-CLASS-62-467 ..... c 33 N71-17897 *
US-PATENT-CLASS-62-467 ..... c 05 N72-11084 *
US-PATENT-CLASS-62-467 ..... c 33 N72-25911 *
US-PATENT-CLASS-62-467 ..... c 33 N73-25952 *
US-PATENT-CLASS-62-467 ..... c 20 N75-24837 *
US-PATENT-CLASS-62-467 ..... c 31 N88-14223 *
US-PATENT-CLASS-62-467 ..... c 31 N89-12785 *
US-PATENT-CLASS-62-467 ..... c 31 N89-14351 *
US-PATENT-CLASS-62-467 ..... c 31 N90-21215 *
US-PATENT-CLASS-62-475 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-476 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-47 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-48 ..... c 28 N78-24365 *
US-PATENT-CLASS-62-48 ..... c 31 N83-31897 *
US-PATENT-CLASS-62-48 ..... c 31 N87-21159 *
US-PATENT-CLASS-62-48 ..... c 31 N88-14223 *
US-PATENT-CLASS-62-48 ..... c 31 N89-29578 *
US-PATENT-CLASS-62-49 ..... c 31 N76-14284 *
US-PATENT-CLASS-62-4 ..... c 44 N77-32561 *
US-PATENT-CLASS-62-4 ..... c 44 N78-17460 *
US-PATENT-CLASS-62-50 ..... c 15 N70-34247 *
US-PATENT-CLASS-62-50 ..... c 35 N78-12390 *
US-PATENT-CLASS-62-514 R ... c 35 N83-32026 *
US-PATENT-CLASS-62-514-JT ... c 31 N89-14351 *
US-PATENT-CLASS-62-514-R ... c 31 N87-21159 *
US-PATENT-CLASS-62-514-R ... c 37 N87-23982 *
US-PATENT-CLASS-62-514-R ... c 31 N89-12785 *
US-PATENT-CLASS-62-514JT ... c 31 N77-10229 *
US-PATENT-CLASS-62-514R ... c 35 N78-12390 *
US-PATENT-CLASS-62-514R ... c 31 N78-17237 *
US-PATENT-CLASS-62-514R ... c 31 N78-25256 *
US-PATENT-CLASS-62-514R ... c 51 N79-10694 *
US-PATENT-CLASS-62-514R ... c 31 N79-17029 *
US-PATENT-CLASS-62-514R ... c 34 N79-20336 *
US-PATENT-CLASS-62-514R ... c 35 N81-14297 *
US-PATENT-CLASS-62-514R ... c 31 N83-31897 *
US-PATENT-CLASS-62-514R ... c 34 N83-34221 *
US-PATENT-CLASS-62-514R ... c 31 N88-14223 *

US-PATENT-CLASS-62-514 ..... c 23 N71-26854 *
US-PATENT-CLASS-62-51 ..... c 15 N72-17453 *
US-PATENT-CLASS-62-55.5 ..... c 11 N71-24964 *
US-PATENT-CLASS-62-55.5 ..... c 15 N72-22484 *
US-PATENT-CLASS-62-55 ..... c 15 N70-38020 *
US-PATENT-CLASS-62-55 ..... c 34 N77-30399 *
US-PATENT-CLASS-62-56 ..... c 05 N72-11084 *
US-PATENT-CLASS-62-62 ..... c 34 N83-34221 *
US-PATENT-CLASS-62-6 ..... c 15 N69-23190 * #
US-PATENT-CLASS-62-6 ..... c 23 N71-15467 *
US-PATENT-CLASS-62-6 ..... c 15 N71-23025 *
US-PATENT-CLASS-62-6 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-6 ..... c 37 N76-29580 *
US-PATENT-CLASS-62-6 ..... c 44 N76-29701 *
US-PATENT-CLASS-62-6 ..... c 44 N83-28574 *
US-PATENT-CLASS-62-6 ..... c 31 N85-21404 *
US-PATENT-CLASS-62-78 ..... c 51 N79-10894 *
US-PATENT-CLASS-62-7 ..... c 15 N73-12486 *
US-PATENT-CLASS-62-80 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-85 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-89 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-93 ..... c 15 N69-21465 * #
US-PATENT-CLASS-62-93 ..... c 03 N72-28025 *
US-PATENT-CLASS-62-93 ..... c 77 N75-20139 *
US-PATENT-CLASS-64-18 ..... c 15 N71-28467 *
US-PATENT-CLASS-64-27 ..... c 15 N71-28959 *
US-PATENT-CLASS-64-28 ..... c 15 N69-27505 * #
US-PATENT-CLASS-65-DIG.11 ... c 37 N74-21063 *
US-PATENT-CLASS-65-DIG.4 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-DIG.7 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-102 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-108 ..... c 35 N77-24455 *
US-PATENT-CLASS-65-11.1 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-12 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-134 ..... c 71 N83-35791 *
US-PATENT-CLASS-65-134 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-136 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-13 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-142 ..... c 31 N81-33319 *
US-PATENT-CLASS-65-142 ..... c 27 N82-28442 *
US-PATENT-CLASS-65-142 ..... c 31 N83-31896 *
US-PATENT-CLASS-65-142 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-142 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-142 ..... c 26 N86-32551 *
US-PATENT-CLASS-65-160 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-1 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-21.2 ..... c 26 N86-32551 *
US-PATENT-CLASS-65-21.3 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-21.3 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-21.4 ..... c 31 N81-33319 *
US-PATENT-CLASS-65-21.4 ..... c 27 N82-28442 *
US-PATENT-CLASS-65-21.4 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-21.4 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-213 ..... c 71 N84-16940 *
US-PATENT-CLASS-65-214 ..... c 31 N83-31896 *
US-PATENT-CLASS-65-22 ..... c 31 N81-33319 *
US-PATENT-CLASS-65-22 ..... c 27 N82-28442 *
US-PATENT-CLASS-65-22 ..... c 31 N83-31896 *
US-PATENT-CLASS-65-22 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-2 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-2 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-2 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-30R ..... c 27 N78-32260 *
US-PATENT-CLASS-65-32 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-3 ..... c 37 N75-26371 *
US-PATENT-CLASS-65-48 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-43 ..... c 37 N75-15992 *
US-PATENT-CLASS-65-43 ..... c 24 N79-25143 *
US-PATENT-CLASS-65-93A ..... c 35 N77-24455 *
US-PATENT-CLASS-65-800 ..... c 27 N78-32260 *
US-PATENT-CLASS-65-81 ..... c 74 N80-24149 *
US-PATENT-CLASS-65-7 ..... c 18 N71-23088 *
US-PATENT-CLASS-65-87 ..... c 71 N78-10837 *
US-PATENT-CLASS-6554 ..... c 35 N77-24455 *
US-PATENT-CLASS-6564 ..... c 35 N77-24455 *
US-PATENT-CLASS-70-58 ..... c 33 N81-25299 *
US-PATENT-CLASS-71-96 ..... c 51 N83-17045 *
US-PATENT-CLASS-72-253 ..... c 15 N71-22797 *
US-PATENT-CLASS-72-258 ..... c 15 N73-13464 *
US-PATENT-CLASS-72-307 ..... c 15 N72-12408 *
US-PATENT-CLASS-72-324 ..... c 71 N86-21276 *
US-PATENT-CLASS-72-341 ..... c 71 N86-21276 *
US-PATENT-CLASS-72-34 ..... c 15 N71-21536 *
US-PATENT-CLASS-72-364 ..... c 15 N71-23911 *
US-PATENT-CLASS-72-363 ..... c 37 N76-14461 *
US-PATENT-CLASS-72-364 ..... c 15 N71-18579 *
US-PATENT-CLASS-72-369 ..... c 15 N71-24879 *
US-PATENT-CLASS-72-436 ..... c 37 N79-29550 *
US-PATENT-CLASS-72-447 ..... c 15 N73-13463 *
US-PATENT-CLASS-72-451 ..... c 37 N79-29550 *
US-PATENT-CLASS-72-453 ..... c 37 N76-19454 *
US-PATENT-CLASS-72-467 ..... c 15 N71-23917 *
US-PATENT-CLASS-72-46 ..... c 24 N75-33181 *
US-PATENT-CLASS-72-470 ..... c 37 N79-29550 *
US-PATENT-CLASS-72-478 ..... c 15 N73-13463 *
US-PATENT-CLASS-72-53 ..... c 15 N71-18918 *
US-PATENT-CLASS-72-53 ..... c 15 N73-32360 *
US-PATENT-CLASS-72-54 ..... c 37 N76-14461 *
US-PATENT-CLASS-72-56 ..... c 15 N70-34249 *
US-PATENT-CLASS-72-56 ..... c 15 N71-24833 *
US-PATENT-CLASS-72-56 ..... c 15 N71-24865 *
US-PATENT-CLASS-72-56 ..... c 15 N71-26148 *
US-PATENT-CLASS-72-60 ..... c 15 N71-24836 *
US-PATENT-CLASS-72-61 ..... c 15 N71-26348 *
US-PATENT-CLASS-72-63 ..... c 20 N75-18310 *
US-PATENT-CLASS-72-63 ..... c 37 N76-14461 *
US-PATENT-CLASS-72-750 ..... c 35 N88-24927 *
US-PATENT-CLASS-72-83 ..... c 15 N71-22723 *
US-PATENT-CLASS-73-DIG.11 ... c 35 N78-18390 *
US-PATENT-CLASS-73-1-DV ..... c 71 N86-21276 *
US-PATENT-CLASS-73-1-DV ..... c 71 N87-21653 *
US-PATENT-CLASS-73-1B ..... c 35 N76-24523 *
US-PATENT-CLASS-73-1B ..... c 35 N84-26019 *
US-PATENT-CLASS-73-1DV ..... c 14 N73-27379 *
US-PATENT-CLASS-73-1F ..... c 35 N74-21019 *
US-PATENT-CLASS-73-1R ..... c 14 N71-29134 *
US-PATENT-CLASS-73-1R ..... c 35 N75-15932 *
US-PATENT-CLASS-73-1R ..... c 35 N76-15432 *
US-PATENT-CLASS-73-100 ..... c 15 N70-41993 *
US-PATENT-CLASS-73-100 ..... c 32 N72-25877 *
US-PATENT-CLASS-73-103 ..... c 15 N71-17696 *
US-PATENT-CLASS-73-103 ..... c 14 N72-27412 *
US-PATENT-CLASS-73-103 ..... c 14 N73-32323 *
US-PATENT-CLASS-73-103 ..... c 35 N76-18400 *
US-PATENT-CLASS-73-104 ..... c 35 N74-32879 *
US-PATENT-CLASS-73-105 ..... c 14 N70-34161 *
US-PATENT-CLASS-73-105 ..... c 14 N71-17586 *
US-PATENT-CLASS-73-115 ..... c 35 N79-14345 *
US-PATENT-CLASS-73-115 ..... c 07 N84-22559 *
US-PATENT-CLASS-73-116 ..... c 11 N70-33278 *
US-PATENT-CLASS-73-116 ..... c 11 N70-34844 *
US-PATENT-CLASS-73-116 ..... c 14 N70-40203 *
US-PATENT-CLASS-73-116 ..... c 11 N70-41677 *
US-PATENT-CLASS-73-116 ..... c 11 N71-10604 *
US-PATENT-CLASS-73-116 ..... c 31 N71-15643 *
US-PATENT-CLASS-73-117.1 ..... c 11 N72-27262 *
US-PATENT-CLASS-73-117.1 ..... c 09 N84-27749 *
US-PATENT-CLASS-73-117.4 ..... c 14 N71-20429 *
US-PATENT-CLASS-73-117.4 ..... c 28 N71-27094 *
US-PATENT-CLASS-73-117.4 ..... c 35 N75-29382 *
US-PATENT-CLASS-73-117 ..... c 14 N71-22965 *
US-PATENT-CLASS-73-12 ..... c 14 N71-23225 *
US-PATENT-CLASS-73-12 ..... c 14 N71-26161 *
US-PATENT-CLASS-73-12 ..... c 14 N72-16282 *
US-PATENT-CLASS-73-12 ..... c 14 N72-25411 *
US-PATENT-CLASS-73-12 ..... c 14 N73-32327 *
US-PATENT-CLASS-73-12 ..... c 35 N74-21062 *
US-PATENT-CLASS-73-12 ..... c 35 N75-33367 *
US-PATENT-CLASS-73-12 ..... c 75 N76-14831 *
US-PATENT-CLASS-73-12 ..... c 35 N77-18417 *
US-PATENT-CLASS-73-12 ..... c 43 N79-25443 *
US-PATENT-CLASS-73-12 ..... c 43 N80-14423 *
US-PATENT-CLASS-73-12 ..... c 43 N80-23711 *
US-PATENT-CLASS-73-12 ..... c 37 N84-33807 *
US-PATENT-CLASS-73-139R ..... c 35 N77-14407 *
US-PATENT-CLASS-73-133 ..... c 14 N71-23725 *
US-PATENT-CLASS-73-133 ..... c 15 N72-22482 *
US-PATENT-CLASS-73-134 ..... c 14 N70-40201 *
US-PATENT-CLASS-73-136R ..... c 15 N72-26371 *
US-PATENT-CLASS-73-136 ..... c 14 N70-34818 *
US-PATENT-CLASS-73-140 ..... c 11 N72-25288 *
US-PATENT-CLASS-73-141AB ... c 14 N72-33377 *
US-PATENT-CLASS-73-141A ..... c 14 N72-21405 *
US-PATENT-CLASS-73-141A ..... c 14 N72-22437 *
US-PATENT-CLASS-73-141A ..... c 35 N74-26945 *
US-PATENT-CLASS-73-141A ..... c 35 N74-27885 *
US-PATENT-CLASS-73-141A ..... c 35 N75-33369 *
US-PATENT-CLASS-73-141A ..... c 52 N81-20703 *
US-PATENT-CLASS-73-141 ..... c 14 N70-41957 *
US-PATENT-CLASS-73-141 ..... c 15 N71-20441 *
US-PATENT-CLASS-73-141 ..... c 14 N71-23790 *
US-PATENT-CLASS-73-141 ..... c 26 N71-25490 *
US-PATENT-CLASS-73-142 ..... c 15 N70-40180 *
US-PATENT-CLASS-73-142 ..... c 14 N71-20439 *
US-PATENT-CLASS-73-143 ..... c 35 N75-19615 *
US-PATENT-CLASS-73-143 ..... c 14 N75-24794 *
US-PATENT-CLASS-73-144 ..... c 15 N71-22678 *
US-PATENT-CLASS-73-147 ..... c 11 N70-33287 *
US-PATENT-CLASS-73-147 ..... c 14 N70-33386 *
US-PATENT-CLASS-73-147 ..... c 14 N70-34813 *
US-PATENT-CLASS-73-147 ..... c 11 N70-38913 *
US-PATENT-CLASS-73-147 ..... c 14 N70-40400 *
US-PATENT-CLASS-73-147 ..... c 14 N70-41366 *
US-PATENT-CLASS-73-147 ..... c 11 N71-15926 *
US-PATENT-CLASS-73-147 ..... c 09 N71-16086 *
US-PATENT-CLASS-73-147 ..... c 12 N71-20436 *
US-PATENT-CLASS-73-147 ..... c 09 N71-20816 *
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US-PATENT-CLASS-73-147 ..... c 11 N71-23030 *
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US-PATENT-CLASS-73-147 ..... c 14 N72-21407 *
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US-PATENT-CLASS-73-147 ..... c 11 N73-12264 *
US-PATENT-CLASS-73-147 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-147 ..... c 12 N73-25362 *
US-PATENT-CLASS-73-147 ..... c 12 N73-28144 *
US-PATENT-CLASS-73-147 ..... c 09 N74-17955 *
US-PATENT-CLASS-73-147 ..... c 34 N74-27730 *
US-PATENT-CLASS-73-147 ..... c 09 N75-12980 *
US-PATENT-CLASS-73-147 ..... c 09 N76-23273 *
US-PATENT-CLASS-73-147 ..... c 34 N76-27517 *
US-PATENT-CLASS-73-147 ..... c 09 N77-19071 *
US-PATENT-CLASS-73-147 ..... c 09 N78-31129 *
US-PATENT-CLASS-73-147 ..... c 35 N79-14047 *
US-PATENT-CLASS-73-147 ..... c 09 N79-21980 *
US-PATENT-CLASS-73-147 ..... c 02 N80-20024 *
US-PATENT-CLASS-73-147 ..... c 06 N81-17067 *
US-PATENT-CLASS-73-147 ..... c 09 N82-11088 *
US-PATENT-CLASS-73-147 ..... c 09 N82-23254 *
US-PATENT-CLASS-73-147 ..... c 71 N83-17235 *
US-PATENT-CLASS-73-147 ..... c 44 N83-21930 *
US-PATENT-CLASS-73-147 ..... c 44 N83-21934 *
US-PATENT-CLASS-73-147 ..... c 74 N83-21948 *
US-PATENT-CLASS-73-147 ..... c 35 N84-22934 *
US-PATENT-CLASS-73-147 ..... c 09 N84-34448 *
US-PATENT-CLASS-73-147 ..... c 09 N85-21178 *
US-PATENT-CLASS-73-147 ..... c 35 N86-32896 *
US-PATENT-CLASS-73-147 ..... c 34 N87-21256 *
US-PATENT-CLASS-73-147 ..... c 09 N87-25334 *
US-PATENT-CLASS-73-147 ..... c 35 N87-26984 *
US-PATENT-CLASS-73-147 ..... c 02 N88-25759 *
US-PATENT-CLASS-73-147 ..... c 09 N88-12591 *
US-PATENT-CLASS-73-147 ..... c 35 N89-12841 *
US-PATENT-CLASS-73-147 ..... c 35 N89-14423 *
US-PATENT-CLASS-73-147 ..... c 35 N90-17117 *
US-PATENT-CLASS-73-147 ..... c 35 N90-23707 *
US-PATENT-CLASS-73-149 ..... c 14 N72-11360 *
US-PATENT-CLASS-73-149 ..... c 52 N74-10975 *
US-PATENT-CLASS-73-15.4 ..... c 14 N71-17699 *
US-PATENT-CLASS-73-15.4 ..... c 35 N74-32879 *
US-PATENT-CLASS-73-15.6 ..... c 14 N70-35368 *
US-PATENT-CLASS-73-15.6 ..... c 14 N71-24234 *
US-PATENT-CLASS-73-15.6 ..... c 14 N71-26136 *
US-PATENT-CLASS-73-15.6 ..... c 32 N72-25877 *
US-PATENT-CLASS-73-15.6 ..... c 09 N74-19528 *
US-PATENT-CLASS-73-15.6 ..... c 35 N76-24822 *
US-PATENT-CLASS-73-15.6 ..... c 35 N77-22490 *
US-PATENT-CLASS-73-15.6 ..... c 39 N78-10493 *
US-PATENT-CLASS-73-15R ..... c 33 N72-25913 *
US-PATENT-CLASS-73-15R ..... c 14 N73-29486 *
US-PATENT-CLASS-73-15R ..... c 26 N74-18681 *
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US-PATENT-CLASS-73-15R ..... c 09 N77-27131 *
US-PATENT-CLASS-73-15R ..... c 74 N81-17087 *
US-PATENT-CLASS-73-150-A ..... c 39 N86-20841 *
US-PATENT-CLASS-73-150R ..... c 35 N84-28018 *
US-PATENT-CLASS-73-155 ..... c 46 N80-10709 *
US-PATENT-CLASS-73-155 ..... c 46 N80-24906 *
US-PATENT-CLASS-73-159 ..... c 31 N79-11248 *
US-PATENT-CLASS-73-15 ..... c 14 N70-34156 *
US-PATENT-CLASS-73-15 ..... c 14 N71-15982 *
US-PATENT-CLASS-73-15 ..... c 14 N71-23984 *
US-PATENT-CLASS-73-15 ..... c 11 N71-24985 *
US-PATENT-CLASS-73-15 ..... c 11 N71-26629 *
US-PATENT-CLASS-73-161 ..... c 11 N72-25296 *
US-PATENT-CLASS-73-167 ..... c 15 N84-16251 *
US-PATENT-CLASS-73-170A ..... c 35 N79-27384 *
US-PATENT-CLASS-73-170A ..... c 48 N80-19697 *
US-PATENT-CLASS-73-170R ..... c 07 N73-29175 *
US-PATENT-CLASS-73-170R ..... c 14 N73-29487 *
US-PATENT-CLASS-73-170R ..... c 14 N73-32327 *
US-PATENT-CLASS-73-170R ..... c 30 N74-27862 *
US-PATENT-CLASS-73-170R ..... c 35 N79-33067 *
US-PATENT-CLASS-73-170R ..... c 91 N79-30131 *
US-PATENT-CLASS-73-170R ..... c 06 N83-10040 *
US-PATENT-CLASS-73-170R ..... c 35 N84-28018 *
US-PATENT-CLASS-73-170 ..... c 14 N71-14998 *
US-PATENT-CLASS-73-170 ..... c 17 N73-32415 *
US-PATENT-CLASS-73-178-R ..... c 06 N84-34443 *
US-PATENT-CLASS-73-178-R ..... c 06 N87-22679 *
US-PATENT-CLASS-73-178-R ..... c 02 N88-23759 *
US-PATENT-CLASS-73-178-T ..... c 09 N90-20696 *
US-PATENT-CLASS-73-178R ..... c 35 N79-29381 *
US-PATENT-CLASS-73-178R ..... c 04 N77-19064 *
US-PATENT-CLASS-73-178R ..... c 37 N78-31424 *
US-PATENT-CLASS-73-178R ..... c 35 N79-26372 *
US-PATENT-CLASS-73-178R ..... c 06 N81-17067 *
US-PATENT-CLASS-73-178R ..... c 04 N81-21047 *
US-PATENT-CLASS-73-178R ..... c 18 N81-29192 *
US-PATENT-CLASS-73-178R ..... c 06 N82-16075 *
US-PATENT-CLASS-73-178R ..... c 06 N83-10040 *
US-PATENT-CLASS-73-178R ..... c 06 N84-27733 *
US-PATENT-CLASS-73-178T ..... c 06 N88-27286 *
US-PATENT-CLASS-73-178 ..... c 14 N70-38857 *
US-PATENT-CLASS-73-178 ..... c 14 N70-40197 *

US-PATENT-CLASS-73-179 ..... c 34 N85-21568 *
US-PATENT-CLASS-73-17 ..... c 06 N71-24607 *
US-PATENT-CLASS-73-180 ..... c 35 N78-14364 *
US-PATENT-CLASS-73-180 ..... c 02 N80-28300 *
US-PATENT-CLASS-73-180 ..... c 35 N89-12841 *
US-PATENT-CLASS-73-182 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-182 ..... c 35 N74-32878 *
US-PATENT-CLASS-73-182 ..... c 35 N76-14429 *
US-PATENT-CLASS-73-182 ..... c 02 N80-28300 *
US-PATENT-CLASS-73-187 ..... c 35 N85-20295 *
US-PATENT-CLASS-73-188 ..... c 06 N80-18036 *
US-PATENT-CLASS-73-189 ..... c 20 N71-16281 *
US-PATENT-CLASS-73-189 ..... c 02 N71-23007 *
US-PATENT-CLASS-73-189 ..... c 14 N71-23726 *
US-PATENT-CLASS-73-189 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-189 ..... c 14 N73-25460 *
US-PATENT-CLASS-73-189 ..... c 35 N76-24524 *
US-PATENT-CLASS-73-189 ..... c 34 N76-27517 *
US-PATENT-CLASS-73-189 ..... c 34 N77-27345 *
US-PATENT-CLASS-73-189 ..... c 34 N79-12359 *
US-PATENT-CLASS-73-189 ..... c 06 N80-18036 *
US-PATENT-CLASS-73-189 ..... c 47 N84-28292 *
US-PATENT-CLASS-73-190H ..... c 35 N74-22095 *
US-PATENT-CLASS-73-190R ..... c 34 N74-27859 *
US-PATENT-CLASS-73-190R ..... c 35 N81-19426 *
US-PATENT-CLASS-73-190 ..... c 33 N71-15641 *
US-PATENT-CLASS-73-190 ..... c 14 N71-22989 *
US-PATENT-CLASS-73-190 ..... c 33 N71-23085 *
US-PATENT-CLASS-73-190 ..... c 33 N71-29051 *
US-PATENT-CLASS-73-194A ..... c 14 N72-17329 *
US-PATENT-CLASS-73-194EM ... c 14 N73-32326 *
US-PATENT-CLASS-73-194EM ... c 35 N74-21018 *
US-PATENT-CLASS-73-194E ..... c 14 N73-20478 *
US-PATENT-CLASS-73-194E ..... c 05 N73-32015 *
US-PATENT-CLASS-73-194F ..... c 14 N72-11385 *
US-PATENT-CLASS-73-194M ..... c 05 N73-32015 *
US-PATENT-CLASS-73-194M ..... c 35 N75-30503 *
US-PATENT-CLASS-73-194R ..... c 34 N76-27517 *
US-PATENT-CLASS-73-194VS ... c 34 N79-12359 *
US-PATENT-CLASS-73-194 ..... c 14 N70-41984 *
US-PATENT-CLASS-73-194 ..... c 14 N71-23226 *
US-PATENT-CLASS-73-194 ..... c 12 N71-26546 *
US-PATENT-CLASS-73-195 ..... c 35 N75-30503 *
US-PATENT-CLASS-73-196 ..... c 14 N89-24257 * ⊕
US-PATENT-CLASS-73-196 ..... c 14 N72-17327 *
US-PATENT-CLASS-73-1 ..... c 10 N71-13545 *
US-PATENT-CLASS-73-1 ..... c 09 N71-22988 *
US-PATENT-CLASS-73-204 ..... c 12 N71-17589 *
US-PATENT-CLASS-73-204 ..... c 35 N76-24524 *
US-PATENT-CLASS-73-204 ..... c 35 N77-20400 *
US-PATENT-CLASS-73-204 ..... c 52 N83-27577 *
US-PATENT-CLASS-73-205L ... c 02 N80-20224 *
US-PATENT-CLASS-73-212 ..... c 14 N70-36824 *
US-PATENT-CLASS-73-212 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-212 ..... c 35 N76-14429 *
US-PATENT-CLASS-73-212 ..... c 06 N80-18036 *
US-PATENT-CLASS-73-221 ..... c 35 N75-19811 *
US-PATENT-CLASS-73-228 ..... c 34 N77-27345 *
US-PATENT-CLASS-73-23.1 ..... c 06 N69-39836 * ⊕
US-PATENT-CLASS-73-23.1 ..... c 06 N72-17084 *
US-PATENT-CLASS-73-23.1 ..... c 06 N72-25148 *
US-PATENT-CLASS-73-23.1 ..... c 25 N76-18245 *
US-PATENT-CLASS-73-23.1 ..... c 23 N77-17161 *
US-PATENT-CLASS-73-23 ..... c 14 N71-10774 *
US-PATENT-CLASS-73-23 ..... c 05 N71-11202 *
US-PATENT-CLASS-73-23 ..... c 52 N74-20728 *
US-PATENT-CLASS-73-23 ..... c 35 N75-29380 *
US-PATENT-CLASS-73-23 ..... c 25 N79-15210 *
US-PATENT-CLASS-73-23 ..... c 35 N78-19485 *
US-PATENT-CLASS-73-24 ..... c 06 N69-39733 * ⊕
US-PATENT-CLASS-73-28 ..... c 14 N73-27376 * ⊕
US-PATENT-CLASS-73-28 ..... c 14 N73-30395 *
US-PATENT-CLASS-73-28 ..... c 35 N76-18401 *
US-PATENT-CLASS-73-28 ..... c 35 N78-18390 *
US-PATENT-CLASS-73-290-R ... c 35 N88-29150 *
US-PATENT-CLASS-73-290-V ... c 35 N89-14407 *
US-PATENT-CLASS-73-290B ..... c 14 N72-11383 *
US-PATENT-CLASS-73-290 ..... c 14 N71-10500 *
US-PATENT-CLASS-73-290 ..... c 14 N71-21007 *
US-PATENT-CLASS-73-295 ..... c 23 N71-17602 *
US-PATENT-CLASS-73-295 ..... c 31 N76-14284 *
US-PATENT-CLASS-73-29 ..... c 14 N71-17701 *
US-PATENT-CLASS-73-29 ..... c 14 N71-20741 *
US-PATENT-CLASS-73-301 ..... c 12 N71-26367 *
US-PATENT-CLASS-73-304-R ... c 35 N88-29150 *
US-PATENT-CLASS-73-304C ..... c 14 N71-29134 *
US-PATENT-CLASS-73-304 ..... c 14 N72-22442 *
US-PATENT-CLASS-73-30 ..... c 14 N70-41981 *
US-PATENT-CLASS-73-32R ..... c 76 N75-12810 *
US-PATENT-CLASS-73-32R ..... c 35 N84-28018 *
US-PATENT-CLASS-73-32 ..... c 14 N70-41330 *
US-PATENT-CLASS-73-336.5 ... c 35 N78-25391 *
US-PATENT-CLASS-73-336.5 ... c 35 N85-29212 *
US-PATENT-CLASS-73-336.5 ... c 35 N87-22963 *
US-PATENT-CLASS-73-339 ..... c 33 N73-27798 *
US-PATENT-CLASS-73-341 ..... c 14 N71-15598 *
US-PATENT-CLASS-73-341 ..... c 44 N82-16474 *
US-PATENT-CLASS-73-343R ..... c 52 N77-10780 *
US-PATENT-CLASS-73-343R ..... c 35 N80-18357 *
US-PATENT-CLASS-73-343 ..... c 33 N71-16356 *
US-PATENT-CLASS-73-343 ..... c 11 N71-21475 *
US-PATENT-CLASS-73-355R ..... c 14 N72-24477 *
US-PATENT-CLASS-73-355R ..... c 35 N80-18359 *
US-PATENT-CLASS-73-355 ..... c 14 N71-27323 *
US-PATENT-CLASS-73-355 ..... c 14 N72-28437 *
US-PATENT-CLASS-73-358 ..... c 35 N75-25122 *
US-PATENT-CLASS-73-35 ..... c 33 N72-27959 *
US-PATENT-CLASS-73-361 ..... c 35 N81-26431 *
US-PATENT-CLASS-73-362AR ... c 35 N77-27388 *
US-PATENT-CLASS-73-37.5 ..... c 35 N86-32698 *
US-PATENT-CLASS-73-379 ..... c 05 N73-27941 *
US-PATENT-CLASS-73-379 ..... c 05 N73-30078 *
US-PATENT-CLASS-73-379 ..... c 35 N75-15932 *
US-PATENT-CLASS-73-379 ..... c 39 N83-20280 *
US-PATENT-CLASS-73-382 ..... c 10 N71-13537 *
US-PATENT-CLASS-73-382 ..... c 14 N71-17587 *
US-PATENT-CLASS-73-384 ..... c 15 N70-37925 *
US-PATENT-CLASS-73-388 ..... c 35 N74-32878 *
US-PATENT-CLASS-73-389 ..... c 12 N71-24682 *
US-PATENT-CLASS-73-38 ..... c 18 N71-24934 *
US-PATENT-CLASS-73-398AR ... c 52 N74-27586 *
US-PATENT-CLASS-73-398AR ... c 52 N76-29896 *
US-PATENT-CLASS-73-398C ..... c 14 N72-22438 *
US-PATENT-CLASS-73-398C ..... c 33 N76-21390 *
US-PATENT-CLASS-73-398 ..... c 14 N70-34816 *
US-PATENT-CLASS-73-398 ..... c 14 N71-21072 *
US-PATENT-CLASS-73-398 ..... c 09 N71-24597 *
US-PATENT-CLASS-73-398 ..... c 14 N73-30394 *
US-PATENT-CLASS-73-399 ..... c 37 N76-18454 *
US-PATENT-CLASS-73-3 ..... c 34 N74-27730 *
US-PATENT-CLASS-73-3 ..... c 34 N86-12547 *
US-PATENT-CLASS-73-4R ..... c 35 N74-13132 *
US-PATENT-CLASS-73-4R ..... c 35 N79-14347 *
US-PATENT-CLASS-73-4R ..... c 35 N80-18358 *
US-PATENT-CLASS-73-4V ..... c 35 N74-15092 *
US-PATENT-CLASS-73-40.5A ... c 35 N85-21597 *
US-PATENT-CLASS-73-40.5 ..... c 14 N71-10779 *
US-PATENT-CLASS-73-40.7 ..... c 15 N71-24910 *
US-PATENT-CLASS-73-40.7 ..... c 14 N71-29992 *
US-PATENT-CLASS-73-40.7 ..... c 35 N74-32879 *
US-PATENT-CLASS-73-40.7 ..... c 35 N85-29213 *
US-PATENT-CLASS-73-400 ..... c 14 N71-23093 *
US-PATENT-CLASS-73-400 ..... c 14 N71-24232 *
US-PATENT-CLASS-73-400 ..... c 35 N79-33450 *
US-PATENT-CLASS-73-401 ..... c 14 N70-34820 *
US-PATENT-CLASS-73-40 ..... c 35 N75-15931 *
US-PATENT-CLASS-73-40 ..... c 35 N80-18358 *
US-PATENT-CLASS-73-419 ..... c 14 N71-22752 *
US-PATENT-CLASS-73-420 ..... c 35 N74-13132 *
US-PATENT-CLASS-73-421.5R ... c 13 N72-25323 *
US-PATENT-CLASS-73-421.5R ... c 14 N73-30395 *
US-PATENT-CLASS-73-421.5R ... c 52 N74-20728 *
US-PATENT-CLASS-73-421.5R ... c 35 N76-18401 *
US-PATENT-CLASS-73-421.5R ... c 35 N77-32456 *
US-PATENT-CLASS-73-421.5 ..... c 14 N73-12444 *
US-PATENT-CLASS-73-421R ..... c 54 N76-14804 *
US-PATENT-CLASS-73-422GC ... c 13 N72-25323 *
US-PATENT-CLASS-73-422TC ... c 13 N72-25323 *
US-PATENT-CLASS-73-422 ..... c 14 N71-20435 *
US-PATENT-CLASS-73-425.2 ..... c 91 N76-30131 *
US-PATENT-CLASS-73-425.4R ... c 35 N78-27384 *
US-PATENT-CLASS-73-425.6 ..... c 15 N72-21485 *
US-PATENT-CLASS-73-432.1 ..... c 34 N80-19534 *
US-PATENT-CLASS-73-432PS ... c 76 N75-12810 *
US-PATENT-CLASS-73-432PS ... c 35 N75-33367 *
US-PATENT-CLASS-73-432PS ... c 35 N78-18390 *
US-PATENT-CLASS-73-432R ..... c 33 N73-27796 *
US-PATENT-CLASS-73-432R ..... c 14 N73-29487 *
US-PATENT-CLASS-73-432R ..... c 91 N76-30131 *
US-PATENT-CLASS-73-432R ..... c 35 N77-18385 *
US-PATENT-CLASS-73-432R ..... c 35 N78-18390 *
US-PATENT-CLASS-73-432R ..... c 15 N84-16231 *
US-PATENT-CLASS-73-432SD ... c 11 N72-27262 *
US-PATENT-CLASS-73-432SD ... c 11 N73-20267 *
US-PATENT-CLASS-73-432SD ... c 35 N77-18417 *
US-PATENT-CLASS-73-432T ..... c 74 N84-11821 *
US-PATENT-CLASS-73-432 ..... c 11 N70-34798 *
US-PATENT-CLASS-73-432 ..... c 11 N70-39675 *
US-PATENT-CLASS-73-432 ..... c 06 N70-42000 *
US-PATENT-CLASS-73-432 ..... c 31 N71-16221 *
US-PATENT-CLASS-73-432 ..... c 27 N71-16223 *
US-PATENT-CLASS-73-432 ..... c 30 N71-17798 *
US-PATENT-CLASS-73-432 ..... c 14 N71-23227 *
US-PATENT-CLASS-73-432 ..... c 10 N71-26339 *
US-PATENT-CLASS-73-432 ..... c 11 N71-26529 *
US-PATENT-CLASS-73-432 ..... c 14 N71-30026 *
US-PATENT-CLASS-73-432 ..... c 35 N74-21062 *
US-PATENT-CLASS-73-45.5 ..... c 12 N71-17573 *
US-PATENT-CLASS-73-458 ..... c 35 N78-24515 *
US-PATENT-CLASS-73-462 ..... c 35 N87-14670 *
US-PATENT-CLASS-73-469 ..... c 37 N84-28082 *
US-PATENT-CLASS-73-48 ..... c 35 N75-19812 *
US-PATENT-CLASS-73-473 ..... c 35 N87-14670 *
US-PATENT-CLASS-73-477 ..... c 35 N87-14670 *
US-PATENT-CLASS-73-49.2 ..... c 32 N71-24295 *
US-PATENT-CLASS-73-49.2 ..... c 35 N75-15931 *
US-PATENT-CLASS-73-49.2 ..... c 35 N75-19812 *
US-PATENT-CLASS-73-49.3 ..... c 14 N71-26872 *
US-PATENT-CLASS-73-49.8 ..... c 14 N69-27503 * ⊕
US-PATENT-CLASS-73-49.8 ..... c 15 N71-29132 *
US-PATENT-CLASS-73-490 ..... c 04 N81-21047 *
US-PATENT-CLASS-73-492 ..... c 14 N72-25411 *
US-PATENT-CLASS-73-493 ..... c 17 N76-29347 *
US-PATENT-CLASS-73-497 ..... c 14 N71-30265 *
US-PATENT-CLASS-73-497 ..... c 35 N74-15094 *
US-PATENT-CLASS-73-4 ..... c 14 N71-18481 *
US-PATENT-CLASS-73-4 ..... c 14 N71-23036 *
US-PATENT-CLASS-73-4 ..... c 14 N71-23755 *
US-PATENT-CLASS-73-4 ..... c 14 N73-30390 *
US-PATENT-CLASS-73-502 ..... c 35 N86-32695 * ⊕
US-PATENT-CLASS-73-504 ..... c 04 N81-21047 *
US-PATENT-CLASS-73-505 ..... c 23 N71-16098 *
US-PATENT-CLASS-73-505 ..... c 12 N75-24774 *
US-PATENT-CLASS-73-505 ..... c 71 N78-10837 *
US-PATENT-CLASS-73-505 ..... c 71 N79-20827 *
US-PATENT-CLASS-73-505 ..... c 71 N81-15767 *
US-PATENT-CLASS-73-505 ..... c 71 N83-32515 *
US-PATENT-CLASS-73-505 ..... c 71 N83-32516 *
US-PATENT-CLASS-73-505 ..... c 71 N83-36846 *
US-PATENT-CLASS-73-505 ..... c 71 N84-23233 *
US-PATENT-CLASS-73-505 ..... c 71 N85-22105 *
US-PATENT-CLASS-73-505 ..... c 71 N85-29660 *
US-PATENT-CLASS-73-505 ..... c 35 N86-20752 *
US-PATENT-CLASS-73-505 ..... c 26 N86-32551 *
US-PATENT-CLASS-73-505 ..... c 71 N88-24241 *
US-PATENT-CLASS-73-505 ..... c 71 N89-13238 *
US-PATENT-CLASS-73-505 ..... c 35 N89-14422 *
US-PATENT-CLASS-73-505 ..... c 71 N90-12289 *
US-PATENT-CLASS-73-510 ..... c 18 N81-29152 *
US-PATENT-CLASS-73-515 ..... c 14 N72-25410 *
US-PATENT-CLASS-73-517B ..... c 35 N74-15094 *
US-PATENT-CLASS-73-517R ..... c 17 N76-29347 *
US-PATENT-CLASS-73-517 ..... c 11 N70-39198 *
US-PATENT-CLASS-73-517 ..... c 14 N70-41982 *
US-PATENT-CLASS-73-517 ..... c 14 N71-15969 *
US-PATENT-CLASS-73-521 ..... c 14 N72-25410 *
US-PATENT-CLASS-73-521 ..... c 35 N86-32695 * ⊕
US-PATENT-CLASS-73-557 ..... c 35 N75-19814 *
US-PATENT-CLASS-73-557 ..... c 07 N76-27232 *
US-PATENT-CLASS-73-56 ..... c 35 N80-18357 *
US-PATENT-CLASS-73-571 ..... c 71 N90-12289 *
US-PATENT-CLASS-73-579 ..... c 39 N78-15512 *
US-PATENT-CLASS-73-579 ..... c 35 N79-10390 *
US-PATENT-CLASS-73-579 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-579 ..... c 27 N85-20126 *
US-PATENT-CLASS-73-57 ..... c 14 N71-17584 *
US-PATENT-CLASS-73-57 ..... c 14 N73-14429 *
US-PATENT-CLASS-73-582 ..... c 27 N85-20126 *
US-PATENT-CLASS-73-583 ..... c 71 N87-21652 *
US-PATENT-CLASS-73-587 ..... c 35 N88-23946 *
US-PATENT-CLASS-73-588 ..... c 37 N84-33907 *
US-PATENT-CLASS-73-588 ..... c 27 N85-20126 *
US-PATENT-CLASS-73-589 ..... c 35 N79-10390 *
US-PATENT-CLASS-73-589 ..... c 35 N84-22933 *
US-PATENT-CLASS-73-589 ..... c 71 N87-21652 *
US-PATENT-CLASS-73-594 ..... c 35 N84-22933 *
US-PATENT-CLASS-73-597 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-597 ..... c 52 N83-27578 *
US-PATENT-CLASS-73-597 ..... c 32 N87-14559 *
US-PATENT-CLASS-73-599 ..... c 71 N87-21652 *
US-PATENT-CLASS-73-599 ..... c 71 N87-21653 *
US-PATENT-CLASS-73-603 ..... c 39 N78-32447 *
US-PATENT-CLASS-73-60 ..... c 14 N73-14429 *
US-PATENT-CLASS-73-61.1C ... c 23 N77-17161 *
US-PATENT-CLASS-73-61R ..... c 35 N78-27384 *
US-PATENT-CLASS-73-615 ..... c 32 N87-14559 *
US-PATENT-CLASS-73-61 ..... c 14 N71-26199 *
US-PATENT-CLASS-73-620 ..... c 35 N84-22929 *
US-PATENT-CLASS-73-626 ..... c 52 N79-26771 *
US-PATENT-CLASS-73-629 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-630 ..... c 39 N78-15512 *
US-PATENT-CLASS-73-632 ..... c 39 N79-14399 *
US-PATENT-CLASS-73-633 ..... c 52 N79-14751 *
US-PATENT-CLASS-73-633 ..... c 35 N84-22929 *
US-PATENT-CLASS-73-64.4 ..... c 34 N83-31983 *
US-PATENT-CLASS-73-641 ..... c 39 N79-14399 *
US-PATENT-CLASS-73-644 ..... c 39 N79-14399 *
US-PATENT-CLASS-73-644 ..... c 52 N79-14751 *
US-PATENT-CLASS-73-646 ..... c 71 N76-14867 *
US-PATENT-CLASS-73-646 ..... c 35 N84-12445 *
US-PATENT-CLASS-73-647 ..... c 32 N79-24203 *
US-PATENT-CLASS-73-655 ..... c 35 N80-14371 *
US-PATENT-CLASS-73-657 ..... c 35 N85-30282 *
US-PATENT-CLASS-73-658 ..... c 35 N84-12445 *
US-PATENT-CLASS-73-66 ..... c 14 N71-22980 *
US-PATENT-CLASS-73-661 ..... c 35 N80-14371 *
US-PATENT-CLASS-73-67.1 ..... c 35 N75-13271 *
US-PATENT-CLASS-73-67.2 ..... c 11 N89-21540 * ⊕

US-PATENT-CLASS-73-67.2 ..... c 15 N71-19132 *
US-PATENT-CLASS-73-67.2 ..... c 14 N72-22440 *
US-PATENT-CLASS-73-67.2 ..... c 35 N78-17356 *
US-PATENT-CLASS-73-67.3 ..... c 32 N73-28910 *
US-PATENT-CLASS-73-67.5R ... c 38 N74-15395 *
US-PATENT-CLASS-73-67.7 ..... c 39 N77-28511 *
US-PATENT-CLASS-73-67.8S ... c 35 N74-10415 *
US-PATENT-CLASS-73-67.8S ... c 38 N74-15130 *
US-PATENT-CLASS-73-67.9 ..... c 52 N74-20726 *
US-PATENT-CLASS-73-683.31 ... c 35 N81-29407 *
US-PATENT-CLASS-73-684.52 ... c 35 N81-29407 *
US-PATENT-CLASS-73-69 ..... c 71 N74-31148 *
US-PATENT-CLASS-73-70.2 ..... c 14 N71-10818 *
US-PATENT-CLASS-73-705 ..... c 38 N85-21639 *
US-PATENT-CLASS-73-708 ..... c 34 N85-21566 *
US-PATENT-CLASS-73-71.2 ..... c 14 N70-34794 *
US-PATENT-CLASS-73-71.3 ..... c 35 N74-15146 *
US-PATENT-CLASS-73-71.4 ..... c 32 N71-15426 *
US-PATENT-CLASS-73-71.4 ..... c 32 N71-35661 *
US-PATENT-CLASS-73-71.5R ... c 71 N74-31148 *
US-PATENT-CLASS-73-71.5U ... c 38 N74-15395 *
US-PATENT-CLASS-73-71.6 ..... c 14 N71-27185 *
US-PATENT-CLASS-73-71.6 ..... c 14 N72-27412 *
US-PATENT-CLASS-73-71.6 ..... c 14 N73-13416 *
US-PATENT-CLASS-73-71.6 ..... c 14 N73-19421 *
US-PATENT-CLASS-73-71.6 ..... c 35 N77-18417 *
US-PATENT-CLASS-73-714 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-714 ..... c 34 N79-24295 *
US-PATENT-CLASS-73-714 ..... c 35 N84-14491 *
US-PATENT-CLASS-73-721 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-721 ..... c 35 N84-22934 *
US-PATENT-CLASS-73-724 ..... c 32 N79-24203 *
US-PATENT-CLASS-73-724 ..... c 52 N80-19691 *
US-PATENT-CLASS-73-724 ..... c 33 N82-26572 *
US-PATENT-CLASS-73-753 ..... c 35 N85-21587 *
US-PATENT-CLASS-73-756 ..... c 35 N79-24515 *
US-PATENT-CLASS-73-756 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-756 ..... c 35 N84-22934 *
US-PATENT-CLASS-73-756 ..... c 35 N87-29884 *
US-PATENT-CLASS-73-75 ..... c 35 N85-34373 *
US-PATENT-CLASS-73-761 ..... c 33 N83-19826 *
US-PATENT-CLASS-73-78 ..... c 06 N72-17095 *
US-PATENT-CLASS-73-770 ..... c 39 N79-22537 *
US-PATENT-CLASS-73-781 ..... c 52 N80-27072 *
US-PATENT-CLASS-73-784 ..... c 35 N86-23967 *
US-PATENT-CLASS-73-789 ..... c 35 N80-23712 *
US-PATENT-CLASS-73-79 ..... c 14 N71-28161 *
US-PATENT-CLASS-73-7 ..... c 25 N86-19413 *
US-PATENT-CLASS-73-801 ..... c 35 N86-23966 *
US-PATENT-CLASS-73-809 ..... c 39 N87-25601 *
US-PATENT-CLASS-73-810 ..... c 39 N79-22537 *
US-PATENT-CLASS-73-810 ..... c 39 N87-25601 *
US-PATENT-CLASS-73-810 ..... c 35 N86-23967 *
US-PATENT-CLASS-73-818 ..... c 35 N83-21312 *
US-PATENT-CLASS-73-819 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-81 ..... c 14 N73-32321 *
US-PATENT-CLASS-73-822 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-827 ..... c 39 N86-20841 *
US-PATENT-CLASS-73-82 ..... c 43 N79-25443 *
US-PATENT-CLASS-73-82 ..... c 43 N80-14423 *
US-PATENT-CLASS-73-82 ..... c 43 N80-23711 *
US-PATENT-CLASS-73-831 ..... c 35 N85-34375 *
US-PATENT-CLASS-73-831 ..... c 37 N80-20409 *
US-PATENT-CLASS-73-833 ..... c 24 N84-27829 *
US-PATENT-CLASS-73-834 ..... c 37 N86-14361 *
US-PATENT-CLASS-73-845 ..... c 35 N80-23712 *
US-PATENT-CLASS-73-84 ..... c 14 N71-22765 *
US-PATENT-CLASS-73-84 ..... c 14 N73-19420 *
US-PATENT-CLASS-73-84 ..... c 35 N77-27367 *
US-PATENT-CLASS-73-856 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-856 ..... c 24 N84-27829 *
US-PATENT-CLASS-73-856 ..... c 35 N85-34375 *
US-PATENT-CLASS-73-856 ..... c 09 N87-25334 *
US-PATENT-CLASS-73-85 ..... c 14 N72-33377 *
US-PATENT-CLASS-73-860 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-860 ..... c 37 N80-20409 *
US-PATENT-CLASS-73-861.05 ... c 33 N83-31954 *
US-PATENT-CLASS-73-861.07 ... c 34 N86-12547 *
US-PATENT-CLASS-73-861.58 ... c 35 N86-25752 *
US-PATENT-CLASS-73-861.63 ... c 02 N80-28300 *
US-PATENT-CLASS-73-861.65 ... c 35 N80-14423 *
US-PATENT-CLASS-73-861.66 ... c 02 N80-28300 *
US-PATENT-CLASS-73-861.71 ... c 47 N84-28292 *
US-PATENT-CLASS-73-861 ..... c 34 N81-26402 *
US-PATENT-CLASS-73-862.01 ... c 35 N86-19581 *
US-PATENT-CLASS-73-862.04 ... c 35 N86-32696 *
US-PATENT-CLASS-73-862.08 ... c 54 N82-26987 *
US-PATENT-CLASS-73-862.54 ... c 37 N83-36482 *
US-PATENT-CLASS-73-862.54 ... c 35 N85-20294 *
US-PATENT-CLASS-73-862.54 ... c 35 N86-19581 *
US-PATENT-CLASS-73-862.61 ... c 35 N86-32696 *
US-PATENT-CLASS-73-862.61 ... c 35 N80-17117 *
US-PATENT-CLASS-73-862.65 ... c 35 N84-28015 *
US-PATENT-CLASS-73-863.11 ... c 35 N83-29650 *
US-PATENT-CLASS-73-863.11 ... c 37 N85-29284 *
US-PATENT-CLASS-73-863.21 ... c 35 N86-26595 *
US-PATENT-CLASS-73-863.31 ... c 45 N83-25217 *
US-PATENT-CLASS-73-863.31 ... c 35 N86-26595 *
US-PATENT-CLASS-73-863.72 ... c 35 N86-26595 *
US-PATENT-CLASS-73-863.83 ... c 45 N83-25217 *
US-PATENT-CLASS-73-863.86 ... c 35 N85-29213 *
US-PATENT-CLASS-73-864.34 ... c 35 N86-26595 *
US-PATENT-CLASS-73-864.41 ... c 35 N84-28018 *
US-PATENT-CLASS-73-864.52 ... c 35 N85-29213 *
US-PATENT-CLASS-73-864.63 ... c 45 N83-25217 *
US-PATENT-CLASS-73-864.81 ... c 37 N85-29286 *
US-PATENT-CLASS-73-86 ..... c 14 N69-39975 * P
US-PATENT-CLASS-73-86 ..... c 33 N71-21586 *
US-PATENT-CLASS-73-86 ..... c 33 N73-27796 *
US-PATENT-CLASS-73-86 ..... c 34 N74-15652 *
US-PATENT-CLASS-73-88.5R ... c 15 N72-17452 *
US-PATENT-CLASS-73-88.5R ... c 32 N73-28910 *
US-PATENT-CLASS-73-88.5R ... c 52 N74-27864 *
US-PATENT-CLASS-73-88.5R ... c 35 N76-14430 *
US-PATENT-CLASS-73-88.5SD .. c 33 N76-19336 *
US-PATENT-CLASS-73-88.5 ..... c 14 N70-34705 *
US-PATENT-CLASS-73-88.5 ..... c 14 N70-34799 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-17656 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-21091 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-23087 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-24233 *
US-PATENT-CLASS-73-88.5 ..... c 09 N72-22200 *
US-PATENT-CLASS-73-88.5 ..... c 33 N75-31329 *
US-PATENT-CLASS-73-88.5 ..... c 38 N76-28563 *
US-PATENT-CLASS-73-88A ..... c 32 N73-20740 *
US-PATENT-CLASS-73-88F ..... c 39 N78-15512 *
US-PATENT-CLASS-73-88R ..... c 35 N74-13129 *
US-PATENT-CLASS-73-88R ..... c 35 N77-22449 *
US-PATENT-CLASS-73-88R ..... c 39 N77-28511 *
US-PATENT-CLASS-73-88 ..... c 32 N71-17645 *
US-PATENT-CLASS-73-90 ..... c 32 N70-42003 *
US-PATENT-CLASS-73-90 ..... c 32 N71-25360 *
US-PATENT-CLASS-73-90 ..... c 14 N73-20478 *
US-PATENT-CLASS-73-91 ..... c 14 N73-20476 *
US-PATENT-CLASS-73-91 ..... c 32 N73-26910 *
US-PATENT-CLASS-73-91 ..... c 09 N74-19528 *
US-PATENT-CLASS-73-91 ..... c 39 N78-10493 *
US-PATENT-CLASS-73-94 ..... c 14 N73-32323 *
US-PATENT-CLASS-73-95 ..... c 15 N71-24834 *
US-PATENT-CLASS-73-95 ..... c 14 N72-11364 *
US-PATENT-CLASS-73-95 ..... c 35 N76-18400 *
US-PATENT-CLASS-73-95 ..... c 35 N77-22450 *
US-PATENT-CLASS-73-95 ..... c 31 N79-11246 *
US-PATENT-CLASS-73-97 ..... c 14 N71-15600 *
US-PATENT-CLASS-73-99 ..... c 14 N71-10781 *
US-PATENT-CLASS-73-9 ..... c 14 N71-22995 *
US-PATENT-CLASS-73-9 ..... c 35 N76-31489 *
US-PATENT-CLASS-73-9 ..... c 15 N84-16231 *
US-PATENT-CLASS-74-100R ... c 37 N78-31426 *
US-PATENT-CLASS-74-100 ..... c 15 N71-24045 *
US-PATENT-CLASS-74-105 ..... c 09 N72-22195 *
US-PATENT-CLASS-74-110 ..... c 44 N83-14693 *
US-PATENT-CLASS-74-126 ..... c 15 N71-21529 *
US-PATENT-CLASS-74-18.1 ..... c 37 N82-24493 *
US-PATENT-CLASS-74-18.2 ..... c 11 N71-27036 *
US-PATENT-CLASS-74-18.2 ..... c 37 N82-24493 *
US-PATENT-CLASS-74-217R ..... c 37 N74-23070 *
US-PATENT-CLASS-74-2 ..... c 15 N71-24600 *
US-PATENT-CLASS-74-2 ..... c 31 N73-14855 *
US-PATENT-CLASS-74-384 ..... c 37 N76-15457 *
US-PATENT-CLASS-74-385 ..... c 07 N70-17056 *
US-PATENT-CLASS-74-409 ..... c 15 N71-21744 *
US-PATENT-CLASS-74-417 ..... c 07 N78-17056 *
US-PATENT-CLASS-74-417 ..... c 37 N81-14318 *
US-PATENT-CLASS-74-417 ..... c 37 N81-17432 *
US-PATENT-CLASS-74-424.8-R .. c 35 N87-21304 *
US-PATENT-CLASS-74-424.8B .. c 37 N85-20338 *
US-PATENT-CLASS-74-424.8VA . c 37 N75-15050 *
US-PATENT-CLASS-74-424.8VA . c 37 N85-20338 *
US-PATENT-CLASS-74-424.8 ..... c 15 N71-29635 *
US-PATENT-CLASS-74-425 ..... c 37 N80-32716 *
US-PATENT-CLASS-74-438 ..... c 37 N75-13268 *
US-PATENT-CLASS-74-441 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-458 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-468 ..... c 15 N71-24984 *
US-PATENT-CLASS-74-468 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-469 ..... c 15 N72-21483 *
US-PATENT-CLASS-74-469 ..... c 15 N72-28495 *
US-PATENT-CLASS-74-471XY ... c 54 N75-27760 *
US-PATENT-CLASS-74-471 ..... c 06 N70-41581 *
US-PATENT-CLASS-74-471 ..... c 03 N70-42073 *
US-PATENT-CLASS-74-471 ..... c 15 N71-20740 *
US-PATENT-CLASS-74-479 ..... c 08 N82-24205 *
US-PATENT-CLASS-74-480R ..... c 05 N75-12930 *
US-PATENT-CLASS-74-480R ..... c 08 N82-24206 *
US-PATENT-CLASS-74-5.12 ..... c 31 N71-26537 *
US-PATENT-CLASS-74-5.22 ..... c 21 N73-13844 *
US-PATENT-CLASS-74-5.34 ..... c 04 N76-26175 *
US-PATENT-CLASS-74-5.34 ..... c 06 N83-33882 *
US-PATENT-CLASS-74-5.47 ..... c 21 N71-23289 *
US-PATENT-CLASS-74-5.5 ..... c 35 N74-28097 *
US-PATENT-CLASS-74-5.5 ..... c 37 N84-28092 *
US-PATENT-CLASS-74-5.6D ..... c 30 N85-29142 *
US-PATENT-CLASS-74-5.6 ..... c 35 N74-15094 *
US-PATENT-CLASS-74-5.7 ..... c 35 N74-18323 *
US-PATENT-CLASS-74-5.7 ..... c 15 N76-14158 *
US-PATENT-CLASS-74-5F ..... c 15 N73-12488 *
US-PATENT-CLASS-74-501R ..... c 15 N72-22486 *
US-PATENT-CLASS-74-515E ..... c 54 N78-17676 *
US-PATENT-CLASS-74-519 ..... c 03 N70-41864 *
US-PATENT-CLASS-74-519 ..... c 05 N81-19087 *
US-PATENT-CLASS-74-572 ..... c 07 N78-33101 *
US-PATENT-CLASS-74-572 ..... c 37 N79-10422 *
US-PATENT-CLASS-74-572 ..... c 44 N79-14527 *
US-PATENT-CLASS-74-572 ..... c 24 N81-29183 *
US-PATENT-CLASS-74-572 ..... c 35 N89-15379 *
US-PATENT-CLASS-74-573R ..... c 37 N84-29092 *
US-PATENT-CLASS-74-586 ..... c 37 N79-14382 *
US-PATENT-CLASS-74-58 ..... c 35 N84-22928 *
US-PATENT-CLASS-74-594.6 ..... c 37 N74-18127 *
US-PATENT-CLASS-74-594.7 ..... c 37 N74-18127 *
US-PATENT-CLASS-74-60 ..... c 15 N71-17692 *
US-PATENT-CLASS-74-661 ..... c 37 N80-32716 *
US-PATENT-CLASS-74-665B ..... c 37 N78-15457 *
US-PATENT-CLASS-74-665C ..... c 37 N80-32716 *
US-PATENT-CLASS-74-674 ..... c 37 N79-20377 *
US-PATENT-CLASS-74-675 ..... c 37 N74-27801 *
US-PATENT-CLASS-74-705 ..... c 37 N79-20377 *
US-PATENT-CLASS-74-710 ..... c 37 N74-27801 *
US-PATENT-CLASS-74-753 ..... c 37 N84-29084 *
US-PATENT-CLASS-74-758 ..... c 37 N84-29084 *
US-PATENT-CLASS-74-764 ..... c 37 N79-20377 *
US-PATENT-CLASS-74-800 ..... c 37 N78-17385 *
US-PATENT-CLASS-74-812 ..... c 37 N84-29084 *
US-PATENT-CLASS-74-81 ..... c 37 N78-16389 *
US-PATENT-CLASS-74-820 ..... c 37 N75-13266 *
US-PATENT-CLASS-74-83 ..... c 37 N78-16388 *
US-PATENT-CLASS-74-89.15 ..... c 15 N71-28635 *
US-PATENT-CLASS-74-89.15 ..... c 15 N72-21462 *
US-PATENT-CLASS-74-89.15 ..... c 36 N87-21304 *
US-PATENT-CLASS-74-89.19 ..... c 15 N71-23809 *
US-PATENT-CLASS-74-89 ..... c 37 N81-30483 *
US-PATENT-CLASS-74-96 ..... c 37 N77-22492 *
US-PATENT-CLASS-75-5B ..... c 17 N72-22530 *
US-PATENT-CLASS-75-DIG.1 ... c 18 N72-25539 *
US-PATENT-CLASS-75-DIG.1 ... c 37 N75-26371 *
US-PATENT-CLASS-75-0.5BB ... c 15 N72-25448 *
US-PATENT-CLASS-75-122.7 ... c 37 N77-19458 *
US-PATENT-CLASS-75-124 ..... c 26 N78-19182 *
US-PATENT-CLASS-75-124 ..... c 26 N80-32484 *
US-PATENT-CLASS-75-126D ..... c 26 N78-19182 *
US-PATENT-CLASS-75-126F ..... c 26 N78-19182 *
US-PATENT-CLASS-75-126G ..... c 26 N78-19182 *
US-PATENT-CLASS-75-126T ..... c 26 N78-19182 *
US-PATENT-CLASS-75-134D ..... c 76 N79-15679 *
US-PATENT-CLASS-75-135 ..... c 18 N73-32437 *
US-PATENT-CLASS-75-135 ..... c 24 N77-27187 *
US-PATENT-CLASS-75-135 ..... c 26 N80-23419 *
US-PATENT-CLASS-75-138 ..... c 26 N80-23419 *
US-PATENT-CLASS-75-139 ..... c 24 N77-27187 *
US-PATENT-CLASS-75-142 ..... c 17 N71-26740 *
US-PATENT-CLASS-75-170 ..... c 17 N71-15844 *
US-PATENT-CLASS-75-170 ..... c 17 N71-19035 *
US-PATENT-CLASS-75-170 ..... c 17 N71-23249 *
US-PATENT-CLASS-75-170 ..... c 17 N72-22535 *
US-PATENT-CLASS-75-170 ..... c 37 N77-19458 *
US-PATENT-CLASS-75-170 ..... c 26 N77-20291 *
US-PATENT-CLASS-75-170 ..... c 26 N77-32279 *
US-PATENT-CLASS-75-170 ..... c 26 N77-32280 *
US-PATENT-CLASS-75-170 ..... c 26 N78-19180 *
US-PATENT-CLASS-75-171 ..... c 17 N70-33080 *
US-PATENT-CLASS-75-171 ..... c 17 N70-38616 *
US-PATENT-CLASS-75-171 ..... c 17 N71-19035 *
US-PATENT-CLASS-75-171 ..... c 17 N73-33415 *
US-PATENT-CLASS-75-172 ..... c 17 N71-23386 *
US-PATENT-CLASS-75-173 ..... c 26 N75-27126 *
US-PATENT-CLASS-75-173 ..... c 26 N75-27127 *
US-PATENT-CLASS-75-178R ..... c 04 N76-26114 *
US-PATENT-CLASS-75-178R ..... c 26 N80-23419 *
US-PATENT-CLASS-75-20F ..... c 15 N72-11367 *
US-PATENT-CLASS-75-200 ..... c 26 N74-10521 *
US-PATENT-CLASS-75-200 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-200 ..... c 24 N75-13032 *
US-PATENT-CLASS-75-200 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-200 ..... c 24 N80-32482 *
US-PATENT-CLASS-75-202 ..... c 17 N71-15488 *
US-PATENT-CLASS-75-203 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-204 ..... c 18 N71-23984 *
US-PATENT-CLASS-75-205 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-206 ..... c 15 N72-25449 *
US-PATENT-CLASS-75-206 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-206R ..... c 37 N75-26371 *
US-PATENT-CLASS-75-208 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-211 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-212 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-212 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-213 ..... c 15 N72-25449 *
US-PATENT-CLASS-75-213 ..... c 37 N74-13179 *

US-PATENT-CLASS-75-214 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-214 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-222 ..... c 28 N70-38197 *
US-PATENT-CLASS-75-222 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-222 ..... c 24 N80-33482 *
US-PATENT-CLASS-75-225 ..... c 34 N76-27515 *
US-PATENT-CLASS-75-226 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-226 ..... c 26 N74-10521 *
US-PATENT-CLASS-75-226 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-226 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-228 ..... c 24 N90-23493 *
US-PATENT-CLASS-75-229 ..... c 27 N78-17206 *
US-PATENT-CLASS-75-239 ..... c 27 N78-17206 *
US-PATENT-CLASS-75-241 ..... c 27 N78-17206 *
US-PATENT-CLASS-75-25 ..... c 28 N81-15119 *
US-PATENT-CLASS-75-63 ..... c 15 N71-27184 *
US-PATENT-CLASS-75-65R ..... c 24 N77-27187 *
US-PATENT-CLASS-75-66 ..... c 17 N71-26773 *
US-PATENT-CLASS-75-66 ..... c 06 N73-13129 *
US-PATENT-CLASS-75-66 ..... c 17 N73-28573 *
US-PATENT-CLASS-77.5AQ ..... c 27 N81-15104 *
US-PATENT-CLASS-77.5CH ..... c 27 N81-15104 *
US-PATENT-CLASS-78-1 ..... c 15 N70-33330 *
US-PATENT-CLASS-780-704 ..... c 36 N79-18307 *
US-PATENT-CLASS-8-DIG.12 ..... c 27 N80-26446 *
US-PATENT-CLASS-8-DIG.18 ..... c 27 N80-26446 *
US-PATENT-CLASS-8-DIG.9 ..... c 25 N86-25428 *
US-PATENT-CLASS-8-115.5 ..... c 27 N80-26446 *
US-PATENT-CLASS-8-150 ..... c 09 N82-29330 *
US-PATENT-CLASS-8-3 ..... c 51 N77-27677 *
US-PATENT-CLASS-8-94.11 ..... c 51 N77-27677 *
US-PATENT-CLASS-8-94.12 ..... c 18 N71-15545 *
US-PATENT-CLASS-81-119 ..... c 37 N79-14383 *
US-PATENT-CLASS-81-177G ..... c 37 N85-21649 *
US-PATENT-CLASS-81-180B ..... c 37 N79-14383 *
US-PATENT-CLASS-81-3R ..... c 15 N71-29133 *
US-PATENT-CLASS-81-5C ..... c 37 N83-36482 *
US-PATENT-CLASS-81-56 ..... c 37 N76-20480 *
US-PATENT-CLASS-81-57.31 ..... c 37 N76-20480 *
US-PATENT-CLASS-81-57.38 ..... c 15 N73-30457 *
US-PATENT-CLASS-81-57.38 ..... c 37 N83-36482 *
US-PATENT-CLASS-81-63.1 ..... c 15 N71-17805 *
US-PATENT-CLASS-81-9.5R ..... c 37 N79-10419 *
US-PATENT-CLASS-81-90B ..... c 37 N79-14383 *
US-PATENT-CLASS-82-1.2 ..... c 37 N81-14319 *
US-PATENT-CLASS-82-1C ..... c 37 N81-14319 *
US-PATENT-CLASS-82-14 ..... c 15 N71-22722 *
US-PATENT-CLASS-82-24R ..... c 14 N72-16283 *
US-PATENT-CLASS-82-36R ..... c 37 N81-14319 *
US-PATENT-CLASS-82-90 ..... c 37 N85-21650 *
US-PATENT-CLASS-83-152 ..... c 76 N80-18951 *
US-PATENT-CLASS-83-451 ..... c 37 N77-14478 *
US-PATENT-CLASS-83-452 ..... c 39 N74-13131 *
US-PATENT-CLASS-83-467R ..... c 37 N77-14478 *
US-PATENT-CLASS-83-467 ..... c 15 N71-22798 *
US-PATENT-CLASS-83-522 ..... c 15 N72-27465 *
US-PATENT-CLASS-83-562 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-563 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-588 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-602 ..... c 39 N74-13131 *
US-PATENT-CLASS-83-664 ..... c 37 N85-21650 *
US-PATENT-CLASS-83-676 ..... c 37 N85-21650 *
US-PATENT-CLASS-83-820 ..... c 37 N80-29703 *
US-PATENT-CLASS-83-870 ..... c 76 N80-18951 *
US-PATENT-CLASS-83-8 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-917 ..... c 39 N74-13131 *
US-PATENT-CLASS-85-1 ..... c 15 N72-22488 *
US-PATENT-CLASS-85-33 ..... c 15 N71-15922 *
US-PATENT-CLASS-85-33 ..... c 15 N71-21489 *
US-PATENT-CLASS-85-3 ..... c 15 N71-17653 *
US-PATENT-CLASS-85-5B ..... c 15 N72-11395 *
US-PATENT-CLASS-85-7 ..... c 15 N71-23254 *
US-PATENT-CLASS-859R ..... c 27 N81-15104 *
US-PATENT-CLASS-86-1R ..... c 28 N77-10213 *
US-PATENT-CLASS-86-1R ..... c 20 N77-17143 *
US-PATENT-CLASS-86-1 ..... c 28 N71-26779 *
US-PATENT-CLASS-86-20.2 ..... c 28 N71-26779 *
US-PATENT-CLASS-86-20R ..... c 20 N77-17143 *
US-PATENT-CLASS-86-14 ..... c 14 N70-34298 *
US-PATENT-CLASS-86-14 ..... c 14 N70-40003 *
US-PATENT-CLASS-86-14 ..... c 14 N70-41946 *
US-PATENT-CLASS-86-14 ..... c 14 N70-41955 *
US-PATENT-CLASS-86-14 ..... c 09 N71-22999 *
US-PATENT-CLASS-86-16 ..... c 14 N70-33254 *
US-PATENT-CLASS-86-1 ..... c 21 N70-35427 *
US-PATENT-CLASS-86-1 ..... c 21 N71-22980 *
US-PATENT-CLASS-86-24 ..... c 23 N71-21682 *
US-PATENT-CLASS-86-1.14 ..... c 37 N87-23983 *
US-PATENT-CLASS-86-1.14 ..... c 37 N90-21390 *
US-PATENT-CLASS-86-1.5G ..... c 08 N82-32373 *
US-PATENT-CLASS-86-1.54 ..... c 05 N87-14314 *
US-PATENT-CLASS-86-1.57 ..... c 37 N85-30334 *
US-PATENT-CLASS-86-1.57 ..... c 37 N90-21390 *
US-PATENT-CLASS-86-1.5 ..... c 31 N71-15675 *
US-PATENT-CLASS-86-1.5 ..... c 15 N71-24600 *
US-PATENT-CLASS-86-1.7 ..... c 11 N70-38302 *
US-PATENT-CLASS-86-1.7 ..... c 30 N70-40353 *
US-PATENT-CLASS-86-1.7 ..... c 03 N71-12258 *
US-PATENT-CLASS-86-1.7 ..... c 03 N71-12258 *
US-PATENT-CLASS-86-1.801 ..... c 20 N76-22296 *
US-PATENT-CLASS-86-1.806 ..... c 15 N71-24043 *
US-PATENT-CLASS-86-1.811 ..... c 15 N72-17455 *
US-PATENT-CLASS-86-1B ..... c 01 N83-35992 *
US-PATENT-CLASS-86-1 ..... c 03 N70-34667 *
US-PATENT-CLASS-86-1 ..... c 15 N71-16078 *
US-PATENT-CLASS-86-36.02 ..... c 24 N80-21822 *
US-PATENT-CLASS-86-8 ..... c 11 N71-18578 *
US-PATENT-CLASS-86-8 ..... c 11 N73-32152 *
US-PATENT-CLASS-86-8 ..... c 75 N76-14911 *
US-PATENT-CLASS-86-8 ..... c 75 N76-17951 *
US-PATENT-CLASS-86-8 ..... c 09 N79-21084 *
US-PATENT-CLASS-9-11A ..... c 02 N73-28006 *
US-PATENT-CLASS-9-11A ..... c 54 N74-14845 *
US-PATENT-CLASS-9-11 ..... c 05 N70-34857 *
US-PATENT-CLASS-9-2A ..... c 02 N73-28006 *
US-PATENT-CLASS-9-312 ..... c 05 N71-22748 *
US-PATENT-CLASS-9-316 ..... c 05 N70-36493 *
US-PATENT-CLASS-9-3 ..... c 02 N73-28006 *
US-PATENT-CLASS-9-8 ..... c 03 N70-36778 *
US-PATENT-CLASS-9-9 ..... c 15 N71-24600 *
US-PATENT-CLASS-90-11 ..... c 15 N71-33518 *
US-PATENT-CLASS-90-12.5 ..... c 37 N74-25968 *
US-PATENT-CLASS-90-12 ..... c 15 N71-22799 *
US-PATENT-CLASS-901-1 ..... c 18 N88-23828 *
US-PATENT-CLASS-901-25 ..... c 37 N86-20789 *
US-PATENT-CLASS-901-31 ..... c 37 N86-19603 *
US-PATENT-CLASS-901-31 ..... c 37 N86-20789 *
US-PATENT-CLASS-901-33 ..... c 18 N88-23828 *
US-PATENT-CLASS-901-38 ..... c 37 N90-20408 *
US-PATENT-CLASS-901-39 ..... c 37 N90-20408 *
US-PATENT-CLASS-901-42 ..... c 37 N86-21850 *
US-PATENT-CLASS-901-47 ..... c 37 N86-21850 *
US-PATENT-CLASS-901-50 ..... c 37 N86-19603 *
US-PATENT-CLASS-91-186 ..... c 05 N73-32014 *
US-PATENT-CLASS-91-325 ..... c 37 N81-32510 *
US-PATENT-CLASS-91-341R ..... c 37 N81-32510 *
US-PATENT-CLASS-91-361 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-363A ..... c 15 N73-13466 *
US-PATENT-CLASS-91-390 ..... c 15 N71-27147 *
US-PATENT-CLASS-91-390 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-410 ..... c 37 N81-32510 *
US-PATENT-CLASS-91-448 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-448 ..... c 15 N73-13466 *
US-PATENT-CLASS-91-461 ..... c 15 N71-27147 *
US-PATENT-CLASS-92-130R ..... c 37 N81-33483 *
US-PATENT-CLASS-92-178 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-208 ..... c 24 N87-27742 *
US-PATENT-CLASS-92-212 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-212 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-213 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-214 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-222 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-222 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-224 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-248 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-37 ..... c 37 N82-24493 *
US-PATENT-CLASS-92-49 ..... c 14 N73-13418 *
US-PATENT-CLASS-92-94 ..... c 32 N70-41370 *
US-PATENT-CLASS-92-98R ..... c 31 N85-21404 *
US-PATENT-CLASS-93-1 ..... c 15 N70-33180 *
US-PATENT-CLASS-94.9N ..... c 27 N81-15104 *
US-PATENT-CLASS-95-1.1 ..... c 14 N72-18411 *
US-PATENT-CLASS-95-1.1 ..... c 14 N73-26431 *
US-PATENT-CLASS-95-11.5R ..... c 14 N73-19419 *
US-PATENT-CLASS-95-11.5 ..... c 14 N73-32319 *
US-PATENT-CLASS-95-11R ..... c 14 N73-19419 *
US-PATENT-CLASS-95-11 ..... c 14 N71-18465 *
US-PATENT-CLASS-95-11 ..... c 16 N71-33410 *
US-PATENT-CLASS-95-11 ..... c 14 N73-32319 *
US-PATENT-CLASS-95-12.5 ..... c 31 N72-25842 *
US-PATENT-CLASS-95-12.5 ..... c 14 N73-14427 *
US-PATENT-CLASS-95-12 ..... c 14 N73-33361 *
US-PATENT-CLASS-95-18 ..... c 14 N72-20380 *
US-PATENT-CLASS-95-42 ..... c 14 N73-32322 *
US-PATENT-CLASS-95-44 ..... c 14 N71-26474 *
US-PATENT-CLASS-95-53EA ..... c 33 N74-20881 *
US-PATENT-CLASS-95-53 ..... c 15 N71-21060 *
US-PATENT-CLASS-95-58 ..... c 14 N70-40273 *
US-PATENT-CLASS-95-59 ..... c 14 N73-14427 *
US-PATENT-CLASS-95-65R ..... c 35 N74-15831 *
US-PATENT-CLASS-95-27R ..... c 35 N79-10389 *
US-PATENT-CLASS-95-36.2 ..... c 06 N72-21094 *
US-PATENT-CLASS-95-36.2 ..... c 15 N72-25452 *
US-PATENT-CLASS-95-36.3 ..... c 35 N74-26946 *
US-PATENT-CLASS-95-49 ..... c 14 N71-17574 *
US-PATENT-CLASS-95-60R ..... c 35 N79-10389 *
US-PATENT-CLASS-95-79 ..... c 35 N74-26946 *
US-PATENT-CLASS-95-87A ..... c 27 N78-14184 *
US-PATENT-CLASS-95-90PC ..... c 14 N72-22443 *
US-PATENT-CLASS-95-1.5 ..... c 44 N78-32539 *
US-PATENT-CLASS-95-1 ..... c 54 N79-17679 *
US-PATENT-CLASS-95-39 ..... c 31 N74-27902 *
US-PATENT-CLASS-99-80PS ..... c 05 N72-33096 *
US-PATENT-DES-228,688 ..... c 05 N74-10907 *
US-PATENT-RE-26,548 ..... c 07 N71-12389 *
US-PATENT-RE-28,921 ..... c 52 N76-30793 *
US-PATENT-2,8[illegible],106 ..... c 15 N71-26952 *
US-PATENT-2,898,889 ..... c 02 N71-29129 *
US-PATENT-2,903,307 ..... c 15 N71-29136 *
US-PATENT-2,926,123 ..... c 33 N71-29151 *
US-PATENT-2,934,331 ..... c 15 N70-33382 *
US-PATENT-2,940,259 ..... c 28 N70-33241 *
US-PATENT-2,944,316 ..... c 15 N71-16076 *
US-PATENT-2,945,687 ..... c 15 N70-33378 *
US-PATENT-2,956,772 ..... c 33 N71-29152 *
US-PATENT-2,960,002 ..... c 14 N70-41946 *
US-PATENT-2,971,837 ..... c 17 N70-33263 *
US-PATENT-2,974,925 ..... c 28 N70-33372 *
US-PATENT-2,984,735 ..... c 11 N70-33329 *
US-PATENT-2,991,671 ..... c 15 N70-33330 *
US-PATENT-2,991,961 ..... c 02 N70-33332 *
US-PATENT-2,996,212 ..... c 31 N71-17680 *
US-PATENT-2,997,274 ..... c 28 N71-29154 *
US-PATENT-3,001,363 ..... c 28 N70-33331 *
US-PATENT-3,001,395 ..... c 14 N70-33386 *
US-PATENT-3,001,739 ..... c 03 N70-33343 *
US-PATENT-3,004,189 ..... c 37 N75-29426 *
US-PATENT-3,004,735 ..... c 14 N70-33322 *
US-PATENT-3,005,081 ..... c 09 N70-33312 *
US-PATENT-3,005,339 ..... c 11 N70-33287 *
US-PATENT-3,008,229 ..... c 15 N70-33311 *
US-PATENT-3,010,372 ..... c 15 N70-33180 *
US-PATENT-3,011,780 ..... c 15 N70-33226 *
US-PATENT-3,012,400 ..... c 28 N70-33374 *
US-PATENT-3,012,407 ..... c 15 N70-33323 *
US-PATENT-3,016,693 ..... c 28 N70-33356 *
US-PATENT-3,016,883 ..... c 12 N70-33305 *
US-PATENT-3,022,672 ..... c 14 N70-34818 *
US-PATENT-3,024,659 ..... c 14 N70-34820 *
US-PATENT-3,026,122 ..... c 02 N70-33296 *
US-PATENT-3,026,126 ..... c 21 N70-33279 *
US-PATENT-3,026,128 ..... c 31 N70-33242 *
US-PATENT-3,035,333 ..... c 28 N70-41818 *
US-PATENT-3,036,077 ..... c 21 N70-33181 *
US-PATENT-3,038,175 ..... c 05 N70-33285 *
US-PATENT-3,041,587 ..... c 14 N70-33179 *
US-PATENT-3,041,924 ..... c 14 N70-33254 *
US-PATENT-3,045,424 ..... c 28 N70-40387 *
US-PATENT-3,049,876 ..... c 28 N70-33294 *
US-PATENT-3,053,484 ..... c 02 N70-33258 *
US-PATENT-3,057,537 ..... c 15 N70-33264 *
US-PATENT-3,059,230 ..... c 09 N70-33182 *
US-PATENT-3,063,291 ..... c 11 N70-33278 *
US-PATENT-3,064,928 ..... c 02 N70-33266 *
US-PATENT-3,067,573 ..... c 28 N70-39899 *
US-PATENT-3,068,668 ..... c 15 N70-34247 *
US-PATENT-3,069,123 ..... c 14 N70-39896 *
US-PATENT-3,070,330 ..... c 21 N70-34539 *
US-PATENT-3,070,349 ..... c 28 N70-39895 *
US-PATENT-3,070,407 ..... c 15 N70-39896 *
US-PATENT-3,072,574 ..... c 18 N70-39897 *
US-PATENT-3,078,066 ..... c 09 N70-39915 *
US-PATENT-3,077,589 ..... c 07 N70-40202 *
US-PATENT-3,079,113 ..... c 02 N70-38009 *
US-PATENT-3,080,711 ..... c 28 N70-38711 *
US-PATENT-3,083,611 ..... c 21 N70-35427 *
US-PATENT-3,084,421 ..... c 17 N70-38480 *
US-PATENT-3,085,165 ..... c 09 N70-34819 *
US-PATENT-3,087,692 ..... c 02 N70-34178 *
US-PATENT-3,088,441 ..... c 15 N70-35409 *
US-PATENT-3,090,212 ..... c 33 N70-37979 *
US-PATENT-3,090,580 ..... c 31 N70-37924 *
US-PATENT-3,093,000 ..... c 15 N70-37925 *
US-PATENT-3,093,346 ..... c 31 N70-37938 *
US-PATENT-3,098,630 ..... c 09 N70-37939 *
US-PATENT-3,100,294 ..... c 09 N70-38990 *
US-PATENT-3,100,990 ..... c 14 N70-34813 *
US-PATENT-3,102,948 ..... c 15 N70-34814 *
US-PATENT-3,104,079 ..... c 31 N70-37985 *
US-PATENT-3,104,082 ..... c 02 N70-38011 *
US-PATENT-3,105,515 ..... c 15 N70-39803 *
US-PATENT-3,106,603 ..... c 09 N70-38201 *
US-PATENT-3,108,171 ..... c 33 N70-34812 *
US-PATENT-3,110,318 ..... c 12 N70-38997 *
US-PATENT-3,112,672 ..... c 11 N70-38202 *
US-PATENT-3,115,630 ..... c 31 N70-37981 *
US-PATENT-3,118,100 ..... c 05 N71-29129 *
US-PATENT-3,119,084 ..... c 35 N79-33449 *
US-PATENT-3,119,232 ..... c 28 N70-37980 *
US-PATENT-3,120,101 ..... c 28 N70-34980 *
US-PATENT-3,120,361 ..... c 31 N70-38010 *
US-PATENT-3,120,738 ..... c 28 N70-38249 *
US-PATENT-3,121,309 ..... c 28 N70-39391 *
US-PATENT-3,122,000 ..... c 15 N70-38020 *
US-PATENT-3,122,098 ..... c 28 N70-38181 *

US-PATENT-3,122,885 ..... c 29 N70-38710 *
US-PATENT-3,123,248 ..... c 11 N70-38182 *
US-PATENT-3,123,418 ..... c 37 N79-33467 *
US-PATENT-3,123,692 ..... c 33 N79-33393 *
US-PATENT-3,127,157 ..... c 15 N70-38225 *
US-PATENT-3,128,389 ..... c 09 N70-38604 *
US-PATENT-3,128,845 ..... c 15 N70-38601 *
US-PATENT-3,130,940 ..... c 33 N70-33344 *
US-PATENT-3,131,040 ..... c 37 N79-21345 *
US-PATENT-3,132,342 ..... c 07 N70-38200 *
US-PATENT-3,132,476 ..... c 28 N70-34294 *
US-PATENT-3,132,479 ..... c 15 N71-28951 *
US-PATENT-3,132,903 ..... c 15 N70-38620 *
US-PATENT-3,134,389 ..... c 37 N79-33468 *
US-PATENT-3,135,089 ..... c 28 N70-38504 *
US-PATENT-3,135,090 ..... c 28 N70-38505 *
US-PATENT-3,136,123 ..... c 28 N70-38199 *
US-PATENT-3,138,837 ..... c 17 N70-38198 *
US-PATENT-3,139,725 ..... c 28 N70-38645 *
US-PATENT-3,140,728 ..... c 15 N70-38909 *
US-PATENT-3,141,340 ..... c 11 N70-38196 *
US-PATENT-3,141,769 ..... c 28 N70-38197 *
US-PATENT-3,141,932 ..... c 03 N70-38713 *
US-PATENT-3,143,321 ..... c 15 N70-34850 *
US-PATENT-3,143,651 ..... c 14 N70-40240 *
US-PATENT-3,144,219 ..... c 31 N70-38876 *
US-PATENT-3,144,999 ..... c 02 N70-34856 *
US-PATENT-3,145,874 ..... c 11 N71-15060 *
US-PATENT-3,147,422 ..... c 09 N70-38712 *
US-PATENT-3,149,897 ..... c 09 N70-36494 *
US-PATENT-3,150,329 ..... c 09 N70-38695 *
US-PATENT-3,150,387 ..... c 03 N70-38778 *
US-PATENT-3,152,344 ..... c 05 N70-36493 *
US-PATENT-3,155,992 ..... c 05 N70-34857 *
US-PATENT-3,156,090 ..... c 28 N70-37245 *
US-PATENT-3,157,529 ..... c 18 N70-38400 *
US-PATENT-3,158,172 ..... c 15 N70-34817 *
US-PATENT-3,158,336 ..... c 31 N70-36410 *
US-PATENT-3,158,764 ..... c 03 N70-36803 *
US-PATENT-3,159,967 ..... c 28 N70-38802 *
US-PATENT-3,160,825 ..... c 14 N70-35220 *
US-PATENT-3,160,950 ..... c 15 N70-36409 *
US-PATENT-3,162,012 ..... c 15 N70-36411 *
US-PATENT-3,163,935 ..... c 14 N70-38907 *
US-PATENT-3,164,222 ..... c 15 N70-34861 *
US-PATENT-3,164,369 ..... c 15 N70-36412 *
US-PATENT-3,165,356 ..... c 06 N70-35152 *
US-PATENT-3,166,834 ..... c 15 N70-36901 *
US-PATENT-3,167,426 ..... c 17 N70-38616 *
US-PATENT-3,168,827 ..... c 14 N70-36807 *
US-PATENT-3,169,001 ..... c 02 N70-36825 *
US-PATENT-3,169,613 ..... c 15 N70-36947 *
US-PATENT-3,169,725 ..... c 31 N70-34298 *
US-PATENT-3,170,286 ..... c 15 N70-36535 *
US-PATENT-3,170,290 ..... c 28 N70-36910 *
US-PATENT-3,170,295 ..... c 27 N71-28929 *
US-PATENT-3,170,324 ..... c 14 N70-36824 *
US-PATENT-3,170,471 ..... c 32 N70-36536 *
US-PATENT-3,170,486 ..... c 15 N70-36482 *
US-PATENT-3,170,605 ..... c 15 N70-38996 *
US-PATENT-3,170,657 ..... c 02 N70-34858 *
US-PATENT-3,170,660 ..... c 02 N70-36804 *
US-PATENT-3,170,773 ..... c 17 N70-33298 *
US-PATENT-3,171,060 ..... c 25 N70-33287 *
US-PATENT-3,171,091 ..... c 14 N70-35666 *
US-PATENT-3,172,087 ..... c 06 N70-35423 *
US-PATENT-3,173,246 ..... c 28 N70-33265 *
US-PATENT-3,173,251 ..... c 26 N70-33375 *
US-PATENT-3,173,801 ..... c 32 N79-10186 *
US-PATENT-3,174,278 ..... c 25 N70-36946 *
US-PATENT-3,174,279 ..... c 28 N70-36806 *
US-PATENT-3,174,827 ..... c 26 N70-36805 *
US-PATENT-3,175,788 ..... c 31 N70-36554 *
US-PATENT-3,176,222 ..... c 14 N70-36618 *
US-PATENT-3,176,499 ..... c 14 N70-35398 *
US-PATENT-3,176,933 ..... c 33 N70-36817 *
US-PATENT-3,177,933 ..... c 33 N70-36847 *
US-PATENT-3,178,883 ..... c 21 N70-36939 *
US-PATENT-3,180,264 ..... c 33 N70-36846 *
US-PATENT-3,180,587 ..... c 21 N70-36943 *
US-PATENT-3,181,821 ..... c 31 N70-36845 *
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US-PATENT-3,183,506 ..... c 07 N70-36911 *
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US-PATENT-3,187,563 ..... c 11 N70-38675 *
US-PATENT-3,188,472 ..... c 21 N70-34297 *
US-PATENT-3,188,844 ..... c 15 N70-34249 *
US-PATENT-3,189,299 ..... c 21 N70-34295 *
US-PATENT-3,189,535 ..... c 15 N70-34987 *
US-PATENT-3,189,726 ..... c 33 N70-34545 *
US-PATENT-3,189,794 ..... c 33 N75-27250 *
US-PATENT-3,189,794 ..... c 09 N70-34502 *
US-PATENT-3,189,864 ..... c 09 N70-34598 *
US-PATENT-3,190,124 ..... c 35 N79-33450 *
US-PATENT-3,191,318 ..... c 31 N70-34966 *
US-PATENT-3,191,379 ..... c 27 N70-36534 *
US-PATENT-3,191,907 ..... c 15 N70-34859 *
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US-PATENT-3,194,951 ..... c 06 N70-34779 *
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US-PATENT-3,196,362 ..... c 09 N70-35440 *
US-PATENT-3,196,557 ..... c 11 N70-34815 *
US-PATENT-3,196,558 ..... c 14 N70-35394 *
US-PATENT-3,196,596 ..... c 26 N70-34788 *
US-PATENT-3,196,675 ..... c 14 N70-34818 *
US-PATENT-3,196,690 ..... c 11 N70-34786 *
US-PATENT-3,197,618 ..... c 14 N71-28958 *
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US-PATENT-3,198,994 ..... c 26 N73-28710 *
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US-PATENT-3,201,980 ..... c 14 N70-40203 *
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US-PATENT-3,202,398 ..... c 28 N71-28928 *
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US-PATENT-3,202,915 ..... c 14 N70-38602 *
US-PATENT-3,202,998 ..... c 31 N70-34135 *
US-PATENT-3,204,447 ..... c 14 N70-34156 *
US-PATENT-3,204,889 ..... c 03 N70-34157 *
US-PATENT-3,205,361 ..... c 14 N70-34158 *
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US-PATENT-3,205,391 ..... c 03 N70-35408 *
US-PATENT-3,206,141 ..... c 21 N70-35395 *
US-PATENT-3,206,897 ..... c 18 N75-27040 *
US-PATENT-3,208,215 ..... c 28 N70-34162 *
US-PATENT-3,208,272 ..... c 14 N70-34161 *
US-PATENT-3,208,694 ..... c 02 N70-34160 *
US-PATENT-3,208,707 ..... c 31 N70-34159 *
US-PATENT-3,208,360 ..... c 09 N70-35219 *
US-PATENT-3,208,361 ..... c 09 N70-35425 *
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US-PATENT-3,211,414 ..... c 15 N70-35407 *
US-PATENT-3,212,096 ..... c 09 N70-35382 *
US-PATENT-3,212,259 ..... c 28 N71-28153 *
US-PATENT-3,212,325 ..... c 14 N70-34705 *
US-PATENT-3,212,564 ..... c 33 N71-28052 *
US-PATENT-3,215,313 ..... c 31 N79-21225 *
US-PATENT-3,215,572 ..... c 12 N70-40124 *
US-PATENT-3,216,007 ..... c 06 N70-40125 *
US-PATENT-3,217,624 ..... c 14 N70-40273 *
US-PATENT-3,218,479 ..... c 09 N70-40272 *
US-PATENT-3,218,547 ..... c 09 N70-40123 *
US-PATENT-3,218,850 ..... c 14 N70-40400 *
US-PATENT-3,219,250 ..... c 15 N70-40204 *
US-PATENT-3,219,385 ..... c 15 N71-28937 *
US-PATENT-3,219,997 ..... c 06 N73-28045 *
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US-PATENT-3,221,547 ..... c 14 N70-40201 *
US-PATENT-3,221,549 ..... c 14 N70-40157 *
US-PATENT-3,223,374 ..... c 15 N70-40158 *
US-PATENT-3,224,001 ..... c 07 N70-40083 *
US-PATENT-3,224,173 ..... c 15 N70-40082 *
US-PATENT-3,224,263 ..... c 15 N70-40160 *
US-PATENT-3,224,336 ..... c 30 N70-40353 *
US-PATENT-3,224,337 ..... c 09 N79-21084 *
US-PATENT-3,226,492 ..... c 15 N70-40354 *
US-PATENT-3,226,558 ..... c 14 N70-40233 *
US-PATENT-3,226,099 ..... c 14 N70-40238 *
US-PATENT-3,229,102 ..... c 14 N70-40239 *
US-PATENT-3,229,139 ..... c 28 N70-39825 *
US-PATENT-3,229,155 ..... c 25 N70-41628 *
US-PATENT-3,229,463 ..... c 28 N70-39831 *
US-PATENT-3,229,568 ..... c 14 N70-40003 *
US-PATENT-3,229,636 ..... c 03 N70-39830 *
US-PATENT-3,229,682 ..... c 09 N70-40234 *
US-PATENT-3,229,686 ..... c 05 N70-39822 *
US-PATENT-3,229,884 ..... c 15 N70-39824 *
US-PATENT-3,229,905 ..... c 04 N78-17031 *
US-PATENT-3,229,990 ..... c 30 N70-40010 *
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US-PATENT-3,238,715 ..... c 28 N71-14043 *
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US-PATENT-3,238,774 ..... c 14 N71-14998 *
US-PATENT-3,238,777 ..... c 14 N71-15599 *
US-PATENT-3,239,660 ..... c 33 N71-30282 *
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US-PATENT-3,243,791 ..... c 07 N71-11298 *
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US-PATENT-3,254,487 ..... c 28 N71-15969 *
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US-PATENT-3,258,831 ..... c 15 N71-15968 *
US-PATENT-3,258,912 ..... c 27 N71-15834 *
US-PATENT-3,258,918 ..... c 27 N71-15836 *
US-PATENT-3,260,055 ..... c 23 N71-15467 *
US-PATENT-3,260,204 ..... c 31 N71-15692 *
US-PATENT-3,260,326 ..... c 11 N71-28779 *
US-PATENT-3,261,210 ..... c 14 N71-15969 *
US-PATENT-3,262,025 ..... c 15 N73-32361 *
US-PATENT-3,262,186 ..... c 15 N71-16052 *
US-PATENT-3,262,262 ..... c 28 N71-15961 *
US-PATENT-3,262,351 ..... c 15 N71-15902 *
US-PATENT-3,262,365 ..... c 31 N71-15875 *
US-PATENT-3,262,395 ..... c 15 N71-30029 *
US-PATENT-3,262,516 ..... c 05 N71-11198 *
US-PATENT-3,262,655 ..... c 31 N71-15960 *
US-PATENT-3,262,694 ..... c 44 N70-19447 *
US-PATENT-3,263,016 ..... c 33 N71-15825 *
US-PATENT-3,263,171 ..... c 09 N71-13530 *
US-PATENT-3,263,610 ..... c 15 N71-13788 *
US-PATENT-3,264,135 ..... c 15 N71-16075 *
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US-PATENT-3,270,499 ..... c 28 N71-15968 *
US-PATENT-3,270,501 ..... c 31 N71-15947 *
US-PATENT-3,270,503 ..... c 33 N71-15923 *
US-PATENT-3,270,504 ..... c 31 N71-15937 *
US-PATENT-3,270,505 ..... c 21 N71-15962 *
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US-PATENT-3,270,565 ..... c 14 N71-30280 *
US-PATENT-3,270,756 ..... c 15 N71-15967 *
US-PATENT-3,270,802 ..... c 33 N71-24878 *
US-PATENT-3,270,835 ..... c 28 N70-41582 *
US-PATENT-3,270,909 ..... c 31 N71-15964 *
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US-PATENT-3,270,998 ..... c 01 N71-13410 *
US-PATENT-3,270,999 ..... c 02 N71-11041 * 9
US-PATENT-3,270,990 ..... c 28 N71-15983 *
US-PATENT-3,271,140 ..... c 17 N71-15944 *
US-PATENT-3,271,181 ..... c 15 N71-16077 *
US-PATENT-3,271,532 ..... c 09 N71-16089 *
US-PATENT-3,271,558 ..... c 15 N71-15871 *
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US-PATENT-3,271,637 ..... c 26 N71-16084 *
US-PATENT-3,271,649 ..... c 10 N71-16038 *
US-PATENT-3,273,094 ..... c 23 N71-29049 *
US-PATENT-3,273,355 ..... c 33 N71-17867 *
US-PATENT-3,273,381 ..... c 32 N71-17645 *
US-PATENT-3,273,388 ..... c 09 N71-16088 *
US-PATENT-3,273,392 ..... c 23 N71-17892 *
US-PATENT-3,273,399 ..... c 12 N71-24682 *
US-PATENT-3,274,804 ..... c 26 N71-17810 *
US-PATENT-3,275,794 ..... c 37 N75-27378 *
US-PATENT-3,276,251 ..... c 11 N71-15926 *
US-PATENT-3,276,376 ..... c 31 N71-17629 *
US-PATENT-3,276,602 ..... c 32 N71-17969 *
US-PATENT-3,276,679 ..... c 15 N71-16079 *
US-PATENT-3,276,722 ..... c 02 N71-16087 *
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US-PATENT-3,276,865 ..... c 17 N71-16025 *
US-PATENT-3,276,866 ..... c 17 N71-16026 *
US-PATENT-3,276,946 ..... c 23 N71-15979 *
US-PATENT-3,277,314 ..... c 10 N71-16042 *
US-PATENT-3,277,366 ..... c 10 N71-16057 *
US-PATENT-3,277,373 ..... c 07 N71-16099 *
US-PATENT-3,277,375 ..... c 07 N71-11264 *
US-PATENT-3,277,456 ..... c 10 N71-16059 *
US-PATENT-3,277,486 ..... c 31 N71-10747 *
US-PATENT-3,279,193 ..... c 33 N71-29862 *
US-PATENT-3,281,558 ..... c 33 N75-27249 *
US-PATENT-3,281,963 ..... c 11 N71-10746 *
US-PATENT-3,281,964 ..... c 11 N71-10779 *
US-PATENT-3,281,965 ..... c 11 N71-10749 *
US-PATENT-3,282,035 ..... c 11 N71-10777 *
US-PATENT-3,282,081 ..... c 14 N71-10761 *
US-PATENT-3,282,532 ..... c 31 N71-17728 *
US-PATENT-3,282,541 ..... c 31 N71-24750 *
US-PATENT-3,282,739 ..... c 03 N71-11053 *
US-PATENT-3,282,740 ..... c 03 N71-11051 *
US-PATENT-3,283,068 ..... c 10 N71-15909 *
US-PATENT-3,283,175 ..... c 10 N71-15910 *
US-PATENT-3,283,241 ..... c 14 N71-16014 *
US-PATENT-3,286,274 ..... c 05 N71-12333 *
US-PATENT-3,286,531 ..... c 30 N71-17709 *
US-PATENT-3,286,629 ..... c 31 N71-17730 *
US-PATENT-3,286,630 ..... c 31 N71-15982 *
US-PATENT-3,286,882 ..... c 27 N71-29155 *

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US-PATENT-3,296,957 ..... c 02 N70-41863 *
US-PATENT-3,297,031 ..... c 15 N70-41608 *
US-PATENT-3,297,174 ..... c 03 N70-41864 *
US-PATENT-3,297,496 ..... c 14 N70-41807 *
US-PATENT-3,297,582 ..... c 28 N70-41578 *
US-PATENT-3,297,640 ..... c 09 N70-41655 *
US-PATENT-3,297,660 ..... c 16 N70-41578 *
US-PATENT-3,297,725 ..... c 07 N70-41680 *
US-PATENT-3,299,205 ..... c 07 N70-41678 *
US-PATENT-3,295,380 ..... c 14 N70-41681 *
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US-PATENT-3,295,377 ..... c 14 N70-41682 *
US-PATENT-3,295,396 ..... c 05 N70-41581 *
US-PATENT-3,295,512 ..... c 03 N70-41580 *
US-PATENT-3,295,545 ..... c 15 N70-41648 *
US-PATENT-3,295,556 ..... c 32 N70-41579 *
US-PATENT-3,295,584 ..... c 54 N82-29002 *
US-PATENT-3,295,694 ..... c 28 N70-41447 *
US-PATENT-3,295,699 ..... c 32 N70-41387 *
US-PATENT-3,295,782 ..... c 14 N70-41647 *
US-PATENT-3,295,790 ..... c 31 N70-41588 *
US-PATENT-3,295,798 ..... c 02 N70-41589 *
US-PATENT-3,295,809 ..... c 15 N70-41310 *
US-PATENT-3,296,080 ..... c 18 N70-41583 *
US-PATENT-3,296,526 ..... c 14 N70-41332 *
US-PATENT-3,296,531 ..... c 07 N70-41331 *
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US-PATENT-3,298,182 ..... c 28 N70-41311 *
US-PATENT-3,298,221 ..... c 14 N70-41330 *
US-PATENT-3,298,285 ..... c 32 N70-41370 *
US-PATENT-3,298,362 ..... c 05 N70-41329 *
US-PATENT-3,298,582 ..... c 14 N71-29935 *
US-PATENT-3,298,364 ..... c 16 N71-15550 *
US-PATENT-3,299,431 ..... c 07 N71-29879 *
US-PATENT-3,299,913 ..... c 15 N71-15919 *
US-PATENT-3,300,162 ..... c 31 N70-41373 *
US-PATENT-3,300,731 ..... c 07 N70-41372 *
US-PATENT-3,300,847 ..... c 15 N70-41371 *
US-PATENT-3,300,949 ..... c 05 N70-41297 *
US-PATENT-3,300,981 ..... c 28 N70-41275 *
US-PATENT-3,301,046 ..... c 14 N70-41386 *
US-PATENT-3,301,315 ..... c 09 N70-41717 *
US-PATENT-3,301,507 ..... c 31 N70-41631 *
US-PATENT-3,301,511 ..... c 02 N70-41630 *
US-PATENT-3,301,578 ..... c 15 N70-41629 *
US-PATENT-3,302,023 ..... c 14 N70-41676 *
US-PATENT-3,302,040 ..... c 09 N70-41675 *
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US-PATENT-3,302,662 ..... c 15 N70-41811 *
US-PATENT-3,302,960 ..... c 15 N70-41629 *
US-PATENT-3,303,304 ..... c 14 N70-41812 *
US-PATENT-3,304,028 ..... c 31 N70-41855 *
US-PATENT-3,304,718 ..... c 28 N70-41922 *
US-PATENT-3,304,724 ..... c 31 N70-41948 *
US-PATENT-3,304,729 ..... c 31 N70-41871 *
US-PATENT-3,304,766 ..... c 32 N70-42003 *
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US-PATENT-3,305,636 ..... c 08 N70-41961 *
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US-PATENT-3,308,648 ..... c 12 N71-16031 *
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US-PATENT-3,309,961 ..... c 15 N71-16078 *
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US-PATENT-3,310,138 ..... c 12 N71-16094 *
US-PATENT-3,310,256 ..... c 31 N71-17673 *
US-PATENT-3,310,258 ..... c 31 N71-17681 *
US-PATENT-3,310,261 ..... c 02 N71-11038 *
US-PATENT-3,310,262 ..... c 02 N71-12243 *
US-PATENT-3,310,443 ..... c 24 N71-10560 *
US-PATENT-3,310,669 ..... c 14 N73-32324 *
US-PATENT-3,310,765 ..... c 33 N79-21264 *
US-PATENT-3,310,978 ..... c 14 N71-10618 *
US-PATENT-3,310,980 ..... c 11 N71-10604 *
US-PATENT-3,311,315 ..... c 07 N71-10609 *
US-PATENT-3,311,502 ..... c 03 N71-10608 *
US-PATENT-3,311,510 ..... c 26 N71-10607 *
US-PATENT-3,311,571 ..... c 27 N79-21190 *
US-PATENT-3,311,748 ..... c 21 N71-10678 *
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US-PATENT-3,312,101 ..... c 14 N71-10774 *
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US-PATENT-3,316,716 ..... c 28 N71-10780 *
US-PATENT-3,316,752 ..... c 14 N71-10779 *
US-PATENT-3,316,891 ..... c 14 N71-10773 *
US-PATENT-3,317,180 ..... c 15 N71-10776 *
US-PATENT-3,317,341 ..... c 18 N71-10772 *

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US-PATENT-3,317,841 ..... c 15 N71-10672 *
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US-PATENT-3,318,096 ..... c 28 N71-26849 *
US-PATENT-3,318,343 ..... c 15 N71-10809 *
US-PATENT-3,318,622 ..... c 15 N71-10798 *
US-PATENT-3,319,175 ..... c 09 N71-10796 *
US-PATENT-3,319,979 ..... c 15 N71-10782 *
US-PATENT-3,320,969 ..... c 15 N70-42017 *
US-PATENT-3,321,034 ..... c 15 N70-42024 *
US-PATENT-3,321,154 ..... c 31 N70-42075 *
US-PATENT-3,321,157 ..... c 02 N70-42016 *
US-PATENT-3,321,159 ..... c 31 N70-42015 *
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US-PATENT-3,321,645 ..... c 10 N70-42032 *
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US-PATENT-3,323,362 ..... c 14 N70-41994 *
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US-PATENT-3,323,464 ..... c 14 N70-42074 *
US-PATENT-3,323,967 ..... c 15 N70-42033 *
US-PATENT-3,324,370 ..... c 09 N71-10677 *
US-PATENT-3,324,388 ..... c 14 N71-10797 *
US-PATENT-3,324,423 ..... c 07 N71-10676 *
US-PATENT-3,324,859 ..... c 28 N71-10574 *
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US-PATENT-3,325,723 ..... c 10 N71-10578 *
US-PATENT-3,325,749 ..... c 09 N71-29810 *
US-PATENT-3,326,043 ..... c 14 N71-10500 *
US-PATENT-3,326,407 ..... c 15 N71-10577 *
US-PATENT-3,327,298 ..... c 08 N71-21042 *
US-PATENT-3,327,991 ..... c 15 N71-21234 *
US-PATENT-3,328,624 ..... c 28 N71-29850 *
US-PATENT-3,329,375 ..... c 21 N71-21709 *
US-PATENT-3,329,918 ..... c 09 N71-21583 *
US-PATENT-3,330,052 ..... c 11 N71-21474 *
US-PATENT-3,330,082 ..... c 15 N71-21531 *
US-PATENT-3,330,510 ..... c 31 N71-29851 *
US-PATENT-3,330,549 ..... c 15 N71-21530 *
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US-PATENT-3,331,246 ..... c 11 N71-21475 *
US-PATENT-3,331,255 ..... c 15 N71-21529 *
US-PATENT-3,331,404 ..... c 12 N71-21099 *
US-PATENT-3,331,951 ..... c 21 N71-21688 *
US-PATENT-3,333,152 ..... c 25 N71-21693 *
US-PATENT-3,333,788 ..... c 31 N71-21681 *
US-PATENT-3,334,225 ..... c 14 N73-32325 *
US-PATENT-3,336,725 ..... c 15 N71-21528 *
US-PATENT-3,336,748 ..... c 25 N71-21694 *
US-PATENT-3,336,754 ..... c 28 N71-22983 *
US-PATENT-3,337,004 ..... c 14 N71-23092 *
US-PATENT-3,337,279 ..... c 05 N71-23080 *
US-PATENT-3,337,315 ..... c 16 N71-23089 *
US-PATENT-3,337,337 ..... c 18 N71-22894 *
US-PATENT-3,337,790 ..... c 12 N71-20898 *
US-PATENT-3,337,812 ..... c 09 N71-23097 *
US-PATENT-3,339,404 ..... c 14 N71-22795 *
US-PATENT-3,339,883 ..... c 14 N71-23040 *
US-PATENT-3,340,099 ..... c 03 N71-23006 *
US-PATENT-3,340,395 ..... c 14 N71-23041 *
US-PATENT-3,340,397 ..... c 11 N71-23042 *
US-PATENT-3,340,430 ..... c 09 N71-22796 *
US-PATENT-3,340,532 ..... c 10 N71-21473 *
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US-PATENT-3,341,151 ..... c 31 N71-23009 *
US-PATENT-3,341,169 ..... c 15 N71-23024 *
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US-PATENT-3,341,778 ..... c 07 N71-23096 *
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US-PATENT-3,342,086 ..... c 11 N71-23030 *
US-PATENT-3,342,663 ..... c 15 N71-22713 *
US-PATENT-3,343,180 ..... c 05 N71-23158 *
US-PATENT-3,343,189 ..... c 05 N71-22748 *
US-PATENT-3,344,340 ..... c 09 N71-21449 *
US-PATENT-3,344,425 ..... c 10 N71-21483 *
US-PATENT-3,345,620 ..... c 28 N71-21822 *
US-PATENT-3,345,622 ..... c 27 N71-21810 *
US-PATENT-3,345,640 ..... c 15 N71-21536 *
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US-PATENT-3,346,419 ..... c 03 N71-20895 *
US-PATENT-3,346,442 ..... c 18 N71-21851 *
US-PATENT-3,346,515 ..... c 06 N71-20905 *
US-PATENT-3,346,724 ..... c 15 N71-21179 *
US-PATENT-3,346,806 ..... c 14 N71-21080 *
US-PATENT-3,346,829 ..... c 15 N71-21076 *
US-PATENT-3,347,046 ..... c 33 N71-21507 *

US-PATENT-3,347,309 ..... c 33 N71-29046 *
US-PATENT-3,347,485 ..... c 18 N71-21068 *
US-PATENT-3,347,486 ..... c 28 N71-21493 *
US-PATENT-3,347,531 ..... c 15 N71-21177 *
US-PATENT-3,347,665 ..... c 17 N71-20743 *
US-PATENT-3,348,048 ..... c 14 N71-21088 *
US-PATENT-3,348,053 ..... c 10 N71-20782 *
US-PATENT-3,348,152 ..... c 10 N71-20841 *
US-PATENT-3,348,218 ..... c 10 N71-29135 *
US-PATENT-3,349,814 ..... c 33 N71-20834 *
US-PATENT-3,350,033 ..... c 14 N71-21082 *
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US-PATENT-3,350,643 ..... c 07 N71-20791 *
US-PATENT-3,350,671 ..... c 09 N71-20842 *
US-PATENT-3,350,926 ..... c 14 N71-21091 *
US-PATENT-3,352,157 ..... c 14 N71-21072 *
US-PATENT-3,352,192 ..... c 15 N71-21489 *
US-PATENT-3,352,774 ..... c 37 N80-14395 *
US-PATENT-3,353,359 ..... c 28 N71-20842 *
US-PATENT-3,354,005 ..... c 06 N71-20717 *
US-PATENT-3,354,320 ..... c 20 N71-21821 *
US-PATENT-3,354,462 ..... c 14 N71-21006 *
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US-PATENT-3,356,549 ..... c 15 N71-21404 *
US-PATENT-3,356,885 ..... c 25 N71-20747 *
US-PATENT-3,356,917 ..... c 33 N79-21265 *
US-PATENT-3,357,024 ..... c 12 N71-20815 *
US-PATENT-3,357,093 ..... c 15 N71-21078 *
US-PATENT-3,357,237 ..... c 33 N71-21588 *
US-PATENT-3,357,862 ..... c 03 N71-20904 *
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US-PATENT-3,359,132 ..... c 09 N71-20705 *
US-PATENT-3,359,409 ..... c 07 N71-21476 *
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US-PATENT-3,360,864 ..... c 14 N71-24803 *
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US-PATENT-3,360,980 ..... c 14 N71-20741 *
US-PATENT-3,360,988 ..... c 09 N71-20816 *
US-PATENT-3,361,045 ..... c 15 N71-21080 *
US-PATENT-3,361,087 ..... c 26 N71-21024 *
US-PATENT-3,361,400 ..... c 15 N71-20813 *
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US-PATENT-3,364,398 ..... c 09 N71-29926 *
US-PATENT-3,364,579 ..... c 14 N71-21079 *
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US-PATENT-3,364,777 ..... c 15 N71-20740 *
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US-PATENT-3,365,657 ..... c 10 N71-22961 *
US-PATENT-3,365,665 ..... c 14 N71-23037 *
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US-PATENT-3,365,941 ..... c 14 N71-22965 *
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US-PATENT-3,366,094 ..... c 10 N71-23094 *
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US-PATENT-3,367,182 ..... c 33 N71-23095 *
US-PATENT-3,367,224 ..... c 15 N71-22798 *
US-PATENT-3,367,271 ..... c 15 N71-24042 *
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US-PATENT-3,368,486 ..... c 15 N71-22974 *
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US-PATENT-3,369,223 ..... c 09 N71-22710 *
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US-PATENT-3,375,885 ..... c 15 N73-32362 *
US-PATENT-3,376,730 ..... c 14 N71-22985 *
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US-PATENT-3,379,064	c 14	N71-23093 *
US-PATENT-3,379,330	c 23	N71-22881 *
US-PATENT-3,379,885	c 09	N71-22985 *
US-PATENT-3,379,974	c 14	N71-22990 *
US-PATENT-3,380,042	c 07	N71-23001 *
US-PATENT-3,380,049	c 10	N71-23099 *
US-PATENT-3,381,339	c 06	N71-22975 *
US-PATENT-3,381,517	c 09	N71-22986 *
US-PATENT-3,381,527	c 15	N71-22878 *
US-PATENT-3,381,569	c 21	N71-22880 *
US-PATENT-3,381,776	c 15	N71-22877 *
US-PATENT-3,382,082	c 18	N71-22998 *
US-PATENT-3,382,105	c 03	N71-29044 *
US-PATENT-3,382,107	c 03	N71-22974 *
US-PATENT-3,382,714	c 14	N71-22989 *
US-PATENT-3,383,461	c 07	N71-23026 *
US-PATENT-3,383,524	c 10	N71-23029 *
US-PATENT-3,383,903	c 14	N71-23036 *
US-PATENT-3,383,922	c 14	N71-22752 *
US-PATENT-3,384,016	c 31	N71-23008 *
US-PATENT-3,384,075	c 05	N71-22896 *
US-PATENT-3,384,111	c 15	N71-22706 *
US-PATENT-3,384,324	c 33	N71-22792 *
US-PATENT-3,384,820	c 09	N71-23021 *
US-PATENT-3,384,895	c 07	N71-22984 *
US-PATENT-3,385,036	c 15	N71-22721 *
US-PATENT-3,386,337	c 15	N71-22799 *
US-PATENT-3,386,685	c 31	N71-22968 *
US-PATENT-3,386,686	c 31	N71-22969 *
US-PATENT-3,387,149	c 14	N71-22993 *
US-PATENT-3,387,218	c 37	N78-17386 *
US-PATENT-3,388,258	c 14	N71-22996 *
US-PATENT-3,388,387	c 10	N71-23033 *
US-PATENT-3,388,590	c 14	N71-23087 *
US-PATENT-3,389,017	c 15	N71-23022 *
US-PATENT-3,389,260	c 14	N71-23269 *
US-PATENT-3,389,346	c 10	N71-28859 *
US-PATENT-3,389,877	c 15	N71-28936 *
US-PATENT-3,390,017	c 03	N71-23336 *
US-PATENT-3,390,020	c 26	N71-23654 *
US-PATENT-3,390,023	c 26	N75-29236 *
US-PATENT-3,390,282	c 09	N71-23311 *
US-PATENT-3,390,378	c 08	N71-23295 *
US-PATENT-3,390,528	c 20	N79-21124 *
US-PATENT-3,391,080	c 15	N71-24046 *
US-PATENT-3,392,403	c 23	N71-23976 *
US-PATENT-3,392,586	c 14	N71-24232 *
US-PATENT-3,392,864	c 18	N71-23658 *
US-PATENT-3,392,865	c 15	N71-23816 *
US-PATENT-3,392,936	c 01	N71-23497 *
US-PATENT-3,393,059	c 06	N71-23499 *
US-PATENT-3,393,330	c 22	N71-23599 *
US-PATENT-3,393,332	c 09	N71-23443 *
US-PATENT-3,393,347	c 10	N71-23543 *
US-PATENT-3,393,380	c 10	N71-23544 *
US-PATENT-3,393,384	c 09	N71-23573 *
US-PATENT-3,394,266	c 14	N73-30391 *
US-PATENT-3,394,359	c 08	N71-28925 *
US-PATENT-3,394,975	c 23	N71-30027 *
US-PATENT-3,395,053	c 18	N71-23047 *
US-PATENT-3,395,565	c 14	N73-30390 *
US-PATENT-3,396,057	c 26	N71-23043 *
US-PATENT-3,396,184	c 06	N71-28808 *
US-PATENT-3,396,303	c 09	N71-22987 *
US-PATENT-3,396,584	c 14	N71-30026 *
US-PATENT-3,396,719	c 52	N79-21750 *
US-PATENT-3,396,920	c 31	N71-29050 *
US-PATENT-3,397,094	c 26	N71-29156 *
US-PATENT-3,397,117	c 15	N71-23086 *
US-PATENT-3,397,318	c 14	N71-22991 *
US-PATENT-3,397,512	c 15	N71-23023 *
US-PATENT-3,397,537	c 20	N79-21125 *
US-PATENT-3,397,932	c 15	N71-22982 *
US-PATENT-3,399,299	c 10	N71-23662 *
US-PATENT-3,399,574	c 32	N71-24285 *
US-PATENT-3,402,265	c 09	N73-28084 *
US-PATENT-3,404,289	c 09	N71-23545 *
US-PATENT-3,404,348	c 32	N74-22096 *
US-PATENT-3,405,406	c 05	N71-23161 *
US-PATENT-3,405,887	c 31	N71-24315 *
US-PATENT-3,406,336	c 10	N71-24863 *
US-PATENT-3,406,742	c 33	N71-24276 *
US-PATENT-3,407,304	c 14	N71-23240 *
US-PATENT-3,408,816	c 28	N71-24736 *
US-PATENT-3,408,870	c 14	N71-23227 *
US-PATENT-3,409,247	c 33	N71-28903 *
US-PATENT-3,409,252	c 15	N71-23255 *
US-PATENT-3,409,554	c 26	N71-23292 *
US-PATENT-3,409,730	c 33	N71-24145 *
US-PATENT-3,411,356	c 14	N71-23226 *
US-PATENT-3,411,900	c 26	N75-27126 *
US-PATENT-3,412,559	c 28	N71-23293 *
US-PATENT-3,412,598	c 14	N71-23225 *
US-PATENT-3,412,729	c 04	N71-23185 *
US-PATENT-3,412,961	c 32	N71-23971 *
US-PATENT-3,413,115	c 17	N71-23365 *
US-PATENT-3,413,393	c 17	N71-29137 *
US-PATENT-3,413,510	c 09	N71-23190 *
US-PATENT-3,413,536	c 03	N71-24605 *
US-PATENT-3,414,012	c 09	N71-23191 *
US-PATENT-3,414,358	c 14	N71-23175 *
US-PATENT-3,415,032	c 15	N71-23256 *
US-PATENT-3,415,069	c 15	N71-24044 *
US-PATENT-3,415,116	c 14	N71-23790 *
US-PATENT-3,415,126	c 21	N71-23289 *
US-PATENT-3,415,156	c 15	N71-24043 *
US-PATENT-3,415,643	c 17	N71-23248 *
US-PATENT-3,416,106	c 09	N71-24808 *
US-PATENT-3,416,274	c 31	N71-24035 *
US-PATENT-3,416,939	c 18	N71-24183 *
US-PATENT-3,416,975	c 17	N71-23828 *
US-PATENT-3,416,988	c 15	N71-24164 *
US-PATENT-3,417,247	c 14	N71-23797 *
US-PATENT-3,417,266	c 09	N71-23270 *
US-PATENT-3,417,298	c 10	N71-23271 *
US-PATENT-3,417,316	c 14	N71-23174 *
US-PATENT-3,417,321	c 09	N71-23316 *
US-PATENT-3,417,332	c 07	N71-23405 *
US-PATENT-3,417,399	c 30	N71-23723 *
US-PATENT-3,417,400	c 07	N71-28809 *
US-PATENT-3,419,329	c 14	N71-23268 *
US-PATENT-3,419,363	c 18	N71-23710 *
US-PATENT-3,419,384	c 17	N73-28573 *
US-PATENT-3,419,433	c 03	N71-23187 *
US-PATENT-3,419,531	c 27	N79-21191 *
US-PATENT-3,419,537	c 08	N71-23500 *
US-PATENT-3,419,827	c 09	N71-23548 *
US-PATENT-3,419,964	c 14	N69-21363 * #
US-PATENT-3,419,992	c 14	N71-23401 *
US-PATENT-3,420,069	c 15	N69-21465 * #
US-PATENT-3,420,223	c 05	N69-21925 * #
US-PATENT-3,420,225	c 05	N69-21473 * #
US-PATENT-3,420,253	c 12	N69-21466 * #
US-PATENT-3,420,338	c 15	N71-26243 *
US-PATENT-3,420,471	c 05	N69-21380 * #
US-PATENT-3,420,704	c 15	N69-21460 * #
US-PATENT-3,420,945	c 09	N69-21542 * #
US-PATENT-3,420,978	c 15	N69-21471 * #
US-PATENT-3,421,004	c 14	N71-19568 *
US-PATENT-3,421,053	c 15	N69-21472 * #
US-PATENT-3,421,056	c 14	N69-23191 * #
US-PATENT-3,421,105	c 09	N69-21543 * #
US-PATENT-3,421,134	c 09	N69-21470 * #
US-PATENT-3,421,331	c 15	N69-23190 * #
US-PATENT-3,421,363	c 11	N69-21540 * #
US-PATENT-3,421,506	c 05	N69-23192 * #
US-PATENT-3,421,541	c 15	N69-21924 * #
US-PATENT-3,421,549	c 03	N69-21469 * #
US-PATENT-3,421,591	c 14	N69-21923 * #
US-PATENT-3,421,700	c 15	N69-23185 * #
US-PATENT-3,421,768	c 15	N69-21362 * #
US-PATENT-3,421,864	c 17	N71-23046 *
US-PATENT-3,421,948	c 03	N69-21337 * #
US-PATENT-3,422,213	c 03	N69-21539 * #
US-PATENT-3,422,278	c 09	N69-21468 * #
US-PATENT-3,422,291	c 25	N69-21929 * #
US-PATENT-3,422,324	c 14	N69-21541 * #
US-PATENT-3,422,352	c 14	N71-19431 *
US-PATENT-3,422,354	c 09	N69-21926 * #
US-PATENT-3,422,390	c 09	N69-21927 * #
US-PATENT-3,422,403	c 08	N69-21928 * #
US-PATENT-3,422,440	c 09	N69-21467 * #
US-PATENT-3,423,179	c 15	N69-21922 * #
US-PATENT-3,423,290	c 06	N71-17705 *
US-PATENT-3,423,579	c 09	N71-19480 *
US-PATENT-3,423,608	c 09	N69-21313 * #
US-PATENT-3,423,627	c 33	N78-17293 *
US-PATENT-3,424,966	c 10	N71-20448 *
US-PATENT-3,425,131	c 15	N71-19489 *
US-PATENT-3,425,268	c 14	N69-39975 * #
US-PATENT-3,425,272	c 14	N71-20439 *
US-PATENT-3,425,276	c 14	N69-24257 * #
US-PATENT-3,425,486	c 05	N71-24147 *
US-PATENT-3,425,487	c 05	N71-19439 *
US-PATENT-3,425,885	c 15	N69-24322 * #
US-PATENT-3,426,219	c 09	N69-24317 * #
US-PATENT-3,426,230	c 15	N69-24319 * #
US-PATENT-3,426,263	c 03	N71-19438 *
US-PATENT-3,426,272	c 14	N69-39785 * #
US-PATENT-3,426,746	c 05	N71-26293 *
US-PATENT-3,426,791	c 15	N71-19569 *
US-PATENT-3,427,047	c 15	N69-27490 * #
US-PATENT-3,427,089	c 23	N69-24332 * #
US-PATENT-3,427,093	c 09	N71-19479 *
US-PATENT-3,427,097	c 11	N69-24321 * #
US-PATENT-3,427,205	c 15	N69-24320 * #
US-PATENT-3,427,435	c 17	N69-25147 * #
US-PATENT-3,427,454	c 05	N71-19440 *
US-PATENT-3,427,525	c 03	N69-21330 * #
US-PATENT-3,428,761	c 09	N69-24329 * #
US-PATENT-3,428,812	c 14	N69-27485 * #
US-PATENT-3,428,847	c 15	N69-24266 * #
US-PATENT-3,428,910	c 09	N69-24330 * #
US-PATENT-3,428,919	c 07	N69-24334 * #
US-PATENT-3,428,923	c 07	N69-27482 * #
US-PATENT-3,429,058	c 12	N69-39988 * #
US-PATENT-3,429,177	c 06	N69-39733 * #
US-PATENT-3,429,477	c 15	N69-27502 * #
US-PATENT-3,429,756	c 76	N79-21910 *
US-PATENT-3,430,063	c 09	N69-27500 * #
US-PATENT-3,430,115	c 09	N69-24318 * #
US-PATENT-3,430,131	c 24	N71-20518 *
US-PATENT-3,430,182	c 14	N69-27431 * #
US-PATENT-3,430,227	c 08	N71-19687 *
US-PATENT-3,430,237	c 07	N69-39974 * #
US-PATENT-3,430,460	c 15	N69-27505 * #
US-PATENT-3,430,902	c 14	N69-27486 * #
US-PATENT-3,430,909	c 11	N69-27466 * #
US-PATENT-3,430,937	c 15	N69-27483 * #
US-PATENT-3,430,942	c 15	N69-27504 * #
US-PATENT-3,431,149	c 14	N69-27459 * #
US-PATENT-3,431,397	c 15	N69-27871 * #
US-PATENT-3,431,460	c 09	N71-23189 *
US-PATENT-3,431,559	c 09	N69-24333 * #
US-PATENT-3,432,730	c 09	N69-27422 * #
US-PATENT-3,433,015	c 28	N71-20330 *
US-PATENT-3,433,079	c 14	N69-27503 * #
US-PATENT-3,433,662	c 14	N71-20461 *
US-PATENT-3,433,818	c 06	N71-23230 *
US-PATENT-3,433,909	c 10	N71-23663 *
US-PATENT-3,433,953	c 14	N69-27484 * #
US-PATENT-3,433,960	c 16	N69-27491 * #
US-PATENT-3,433,961	c 14	N69-27432 * #
US-PATENT-3,434,033	c 09	N69-39984 * #
US-PATENT-3,434,037	c 10	N71-26414 *
US-PATENT-3,434,050	c 09	N71-20569 *
US-PATENT-3,434,064	c 09	N69-39986 * #
US-PATENT-3,434,855	c 18	N71-24184 *
US-PATENT-3,434,885	c 03	N71-20492 *
US-PATENT-3,435,246	c 14	N69-24331 * #
US-PATENT-3,437,394	c 14	N69-27461 * #
US-PATENT-3,437,527	c 03	N69-24267 * #
US-PATENT-3,437,560	c 04	N69-27487 * #
US-PATENT-3,437,818	c 03	N71-23354 *
US-PATENT-3,437,832	c 09	N69-27463 * #
US-PATENT-3,437,874	c 08	N71-20571 *
US-PATENT-3,437,903	c 03	N69-25146 * #
US-PATENT-3,437,919	c 14	N69-27423 * #
US-PATENT-3,437,935	c 09	N69-24324 * #
US-PATENT-3,437,959	c 07	N69-24323 * #
US-PATENT-3,438,044	c 07	N69-27480 * #
US-PATENT-3,438,263	c 14	N71-20435 *
US-PATENT-3,439,886	c 31	N69-27499 * #
US-PATENT-3,440,419	c 14	N73-28491 *
US-PATENT-3,442,674	c 25	N82-29370 *
US-PATENT-3,443,128	c 03	N69-39990 * #
US-PATENT-3,443,208	c 14	N71-20428 *
US-PATENT-3,443,384	c 28	N71-24321 *
US-PATENT-3,443,390	c 11	N71-24964 *
US-PATENT-3,443,412	c 15	N71-23811 *
US-PATENT-3,443,416	c 06	N69-39936 * #
US-PATENT-3,443,472	c 15	N71-23254 *
US-PATENT-3,443,583	c 14	N71-18625 *
US-PATENT-3,443,584	c 32	N71-16106 *
US-PATENT-3,443,732	c 15	N71-15607 *
US-PATENT-3,443,773	c 31	N71-23912 *
US-PATENT-3,443,779	c 01	N69-39981 * #
US-PATENT-3,444,051	c 05	N71-11207 *
US-PATENT-3,444,127	c 06	N71-11237 *
US-PATENT-3,444,375	c 14	N71-15599 *
US-PATENT-3,444,380	c 07	N69-39980 * #
US-PATENT-3,446,075	c 14	N73-30394 *
US-PATENT-3,446,387	c 15	N69-39935 * #
US-PATENT-3,446,558	c 16	N71-24074 *
US-PATENT-3,446,642	c 18	N69-39895 * #
US-PATENT-3,446,676	c 03	N71-11050 *
US-PATENT-3,446,960	c 14	N69-39982 * #
US-PATENT-3,446,992	c 09	N69-39987 * #
US PATENT-3,446,997	c 03	N69-39896 * #
US-PATENT-3,446,998	c 09	N69-39929 * #
US-PATENT-3,447,003	c 09	N71-20446 *
US-PATENT-3,447,015	c 06	N69-39889 * #
US-PATENT-3,447,071	c 25	N69-39884 * #
US-PATENT-3,447,154	c 21	N71-11786 *
US-PATENT-3,447,155	c 09	N71-18598 *
US-PATENT-3,447,233	c 15	N69-39786 * #
US-PATENT-3,447,774	c 15	N71-19485 *
US-PATENT-3,447,850	c 09	N71-18600 *
US-PATENT-3,448,273	c 07	N69-39736 * #
US-PATENT-3,448,290	c 10	N71-23315 *
US-PATENT-3,448,341	c 09	N71-12526 *
US-PATENT-3,448,346	c 15	N71-18701 *
US-PATENT-3,450,842	c 07	N69-39978 * #
US-PATENT-3,450,878	c 14	N71-20430 *
US-PATENT-3,450,946	c 09	N69-39897 * #

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US-PATENT-3,452,423 ..... c 26 N71-16037 *
US-PATENT-3,452,872 ..... c 14 N69-39896 * #
US-PATENT-3,453,172 ..... c 15 N69-39735 * #
US-PATENT-3,453,462 ..... c 03 N69-39983 * #
US-PATENT-3,453,546 ..... c 05 N71-12342 *
US-PATENT-3,453,878 ..... c 09 N79-21083 *
US-PATENT-3,454,410 ..... c 18 N69-39979 * #
US-PATENT-3,454,766 ..... c 35 N75-27329 *
US-PATENT-3,455,121 ..... c 14 N71-20427 *
US-PATENT-3,455,171 ..... c 23 N71-16098 *
US-PATENT-3,456,112 ..... c 14 N69-39937 * #
US-PATENT-3,456,193 ..... c 08 N71-19763 *
US-PATENT-3,456,201 ..... c 09 N69-39885 * #
US-PATENT-3,458,104 ..... c 15 N71-20393 *
US-PATENT-3,458,313 ..... c 14 N71-17574 *
US-PATENT-3,458,651 ..... c 09 N71-19449 *
US-PATENT-3,458,702 ..... c 14 N71-18699 *
US-PATENT-3,458,726 ..... c 10 N69-39888 * #
US-PATENT-3,458,833 ..... c 10 N71-19418 *
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US-PATENT-3,460,381 ..... c 14 N71-23725 *
US-PATENT-3,460,397 ..... c 15 N71-24045 *
US-PATENT-3,460,759 ..... c 28 N71-23968 *
US-PATENT-3,460,781 ..... c 14 N71-23698 *
US-PATENT-3,460,995 ..... c 03 N71-20407 *
US-PATENT-3,461,290 ..... c 14 N71-26475 *
US-PATENT-3,461,393 ..... c 10 N71-26415 *
US-PATENT-3,461,437 ..... c 10 N71-26434 *
US-PATENT-3,461,700 ..... c 15 N71-26346 *
US-PATENT-3,461,721 ..... c 12 N71-20436 *
US-PATENT-3,461,855 ..... c 05 N71-20268 *
US-PATENT-3,463,001 ..... c 14 N71-20429 *
US-PATENT-3,463,563 ..... c 15 N71-23812 *
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US-PATENT-3,463,762 ..... c 06 N73-30100 *
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US-PATENT-3,464,016 ..... c 10 N71-19472 *
US-PATENT-3,464,018 ..... c 09 N71-23525 *
US-PATENT-3,464,049 ..... c 32 N71-15974 *
US-PATENT-3,464,051 ..... c 15 N71-17685 *
US-PATENT-3,465,482 ..... c 31 N71-16080 *
US-PATENT-3,465,567 ..... c 15 N71-18579 *
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US-PATENT-3,465,638 ..... c 11 N71-18578 *
US-PATENT-3,465,986 ..... c 31 N71-20396 *
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US-PATENT-3,468,765 ..... c 17 N71-25903 *
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US-PATENT-3,469,436 ..... c 15 N71-23817 *
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US-PATENT-3,470,318 ..... c 07 N71-24612 *
US-PATENT-3,470,342 ..... c 09 N71-19610 *
US-PATENT-3,470,443 ..... c 03 N71-23239 *
US-PATENT-3,470,446 ..... c 09 N71-23188 *
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US-PATENT-3,470,475 ..... c 10 N71-19467 *
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US-PATENT-3,472,086 ..... c 15 N71-23809 *
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US-PATENT-3,472,202 ..... c 17 N71-24911 *
US-PATENT-3,472,372 ..... c 15 N71-20440 *
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US-PATENT-3,473,379 ..... c 12 N71-26387 *
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US-PATENT-3,475,675 ..... c 33 N78-17295 *
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US-PATENT-3,484,712 ..... c 10 N71-26374 *
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US-PATENT-3,486,123 ..... c 16 N71-24831 *
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US-PATENT-3,488,414 ..... c 15 N71-17803 *
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US-PATENT-3,488,504 ..... c 21 N71-15642 *
US-PATENT-3,488,771 ..... c 54 N78-17678 *
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US-PATENT-3,554,647 ..... c 23 N71-26206 *
US-PATENT-3,554,806 ..... c 03 N71-26084 *
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US-PATENT-3,632,242 ..... c 15 N72-20446 *
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US-PATENT-3,632,996 ..... c 08 N72-20176 *
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US-PATENT-3,635,765 ..... c 03 N72-20034 *
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US-PATENT-3,638,103 ..... c 09 N72-21243 *
US-PATENT-3,638,114 ..... c 10 N72-20222 *
US-PATENT-3,638,224 ..... c 09 N72-21244 *
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US-PATENT-3,656,352 ..... c 14 N72-25411 *
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US-PATENT-3,659,225 ..... c 16 N72-25485 *
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US-PATENT-3,660,434 ..... c 06 N72-25148 *
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US-PATENT-3,663,347 ..... c 18 N72-25540 *
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US-PATENT-3,663,521 ..... c 06 N72-25152 *
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US-PATENT-3,665,307 ..... c 15 N72-25457 *
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US-PATENT-3,665,417 ..... c 07 N72-25172 *
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US-PATENT-3,665,750 ..... c 33 N72-25913 *
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US-PATENT-3,712,195 ..... c 14 N73-19419 *
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US-PATENT-3,748,853 ..... c 23 N73-30665 *
US-PATENT-3,748,905 ..... c 14 N73-30395 *
US-PATENT-3,749,123 ..... c 15 N73-30459 *
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US-PATENT-3,749,205 ..... c 15 N73-30460 *
US-PATENT-3,749,332 ..... c 31 N73-32750 *
US-PATENT-3,749,362 ..... c 15 N73-30457 *
US-PATENT-3,749,831 ..... c 07 N73-30115 *
US-PATENT-3,749,911 ..... c 14 N73-30389 *
US-PATENT-3,750,016 ..... c 14 N73-30388 *
US-PATENT-3,750,035 ..... c 33 N77-13315 *
US-PATENT-3,750,067 ..... c 09 N73-30185 *
US-PATENT-3,750,131 ..... c 10 N73-30205 *
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US-PATENT-3,750,479 ..... c 05 N73-30078 *
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US-PATENT-3,751,727 ..... c 05 N73-32012 *
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US-PATENT-3,752,559 ..... c 14 N73-30393 *
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US-PATENT-3,752,665 ..... c 18 N73-32437 *
US-PATENT-3,752,847 ..... c 06 N73-30096 *
US-PATENT-3,752,986 ..... c 14 N73-30392 *
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US-PATENT-3,752,996 ..... c 91 N74-13130 *
US-PATENT-3,753,148 ..... c 09 N73-32111 *
US-PATENT-3,754,236 ..... c 06 N73-32061 *
US-PATENT-3,754,263 ..... c 09 N73-32110 *
US-PATENT-3,754,976 ..... c 15 N73-32360 *
US-PATENT-3,755,265 ..... c 06 N73-33076 *
US-PATENT-3,755,283 ..... c 06 N73-32029 *
US-PATENT-3,755,686 ..... c 03 N73-31988 *
US-PATENT-3,756,920 ..... c 05 N73-32011 *
US-PATENT-3,757,183 ..... c 09 N73-32107 *
US-PATENT-3,757,476 ..... c 31 N73-32749 *
US-PATENT-3,757,568 ..... c 14 N73-32323 *
US-PATENT-3,757,659 ..... c 14 N73-32322 *
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US-PATENT-3,758,718 ..... c 10 N73-32143 *
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US-PATENT-3,758,781 ..... c 14 N73-32317 *
US-PATENT-3,758,877 ..... c 16 N73-32391 *
US-PATENT-3,759,152 ..... c 14 N73-32319 *
US-PATENT-3,759,249 ..... c 05 N73-32015 *
US-PATENT-3,759,443 ..... c 28 N73-32606 *
US-PATENT-3,759,588 ..... c 15 N73-32359 *
US-PATENT-3,759,672 ..... c 14 N73-32320 *
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US-PATENT-3,759,747 ..... c 44 N74-19692 *
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US-PATENT-3,760,257 ..... c 09 N73-32109 *
US-PATENT-3,760,266 ..... c 14 N73-32318 *
US-PATENT-3,760,394 ..... c 10 N73-32144 *
US-PATENT-3,762,884 ..... c 17 N73-32414 *
US-PATENT-3,762,918 ..... c 17 N73-32415 *
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US-PATENT-3,763,691 ..... c 14 N73-32327 *
US-PATENT-3,763,706 ..... c 35 N74-18323 *
US-PATENT-3,763,740 ..... c 11 N73-32152 *
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US-PATENT-3,764,850 ..... c 33 N74-10195 *
US-PATENT-3,764,933 ..... c 33 N74-10194 *
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US-PATENT-3,765,958 ..... c 26 N74-10521 *
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US-PATENT-3,766,380 ..... c 35 N74-11284 *
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US-PATENT-3,769,623 ..... c 32 N74-11000 *
US-PATENT-3,769,689 ..... c 37 N74-11301 *
US-PATENT-3,769,834 ..... c 52 N74-10975 *
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US-PATENT-3,770,903 ..... c 35 N74-11283 *
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US-PATENT-3,771,040 ..... c 33 N74-11049 *
US-PATENT-3,771,074 ..... c 36 N74-11313 *
US-PATENT-3,771,959 ..... c 25 N74-12813 *
US-PATENT-3,772,174 ..... c 27 N74-13270 *
US-PATENT-3,772,216 ..... c 27 N74-12812 *
US-PATENT-3,772,220 ..... c 27 N74-12814 *
US-PATENT-3,772,272 ..... c 33 N74-12887 *
US-PATENT-3,772,418 ..... c 31 N74-13177 *
US-PATENT-3,772,691 ..... c 32 N74-12912 *
US-PATENT-3,773,036 ..... c 52 N74-12778 *
US-PATENT-3,773,913 ..... c 46 N74-13011 *
US-PATENT-3,775,101 ..... c 37 N74-13179 *
US-PATENT-3,775,570 ..... c 35 N78-29421 *
US-PATENT-3,776,028 ..... c 35 N74-13129 *
US-PATENT-3,776,432 ..... c 37 N74-13178 *
US-PATENT-3,776,455 ..... c 04 N74-13420 *
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US-PATENT-3,777,490 ..... c 20 N74-13502 *
US-PATENT-3,777,546 ..... c 35 N74-13132 *
US-PATENT-3,777,552 ..... c 38 N74-15130 *
US-PATENT-3,777,605 ..... c 39 N74-13131 *
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US-PATENT-3,778,791 ..... c 36 N74-13205 *
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US-PATENT-3,780,424 ..... c 44 N74-14784 *
US-PATENT-3,780,563 ..... c 35 N74-15092 *
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US-PATENT-3,781,562 ..... c 35 N74-15091 *
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US-PATENT-3,782,699 ..... c 35 N74-15126 *
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US-PATENT-3,782,825 ..... c 35 N74-15146 *
US-PATENT-3,782,835 ..... c 74 N74-15095 *
US-PATENT-3,782,904 ..... c 35 N74-15127 *
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US-PATENT-3,783,354 ..... c 33 N74-14956 *
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US-PATENT-3,783,443 ..... c 35 N74-16135 *
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US-PATENT-3,788,163 ..... c 37 N74-18127 *
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US-PATENT-3,789,920 ..... c 34 N74-18552 *
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US-PATENT-3,790,906 ..... c 33 N74-17927 *
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US-PATENT-3,795,840 ..... c 33 N74-17929 *
US-PATENT-3,795,858 ..... c 35 N74-18090 *
US-PATENT-3,795,862 ..... c 33 N74-17930 *
US-PATENT-3,795,900 ..... c 35 N74-17885 *
US-PATENT-3,795,910 ..... c 44 N74-19870 *
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US-PATENT-3,796,592 ..... c 24 N74-19769 *
US-PATENT-3,797,098 ..... c 37 N74-21057 *
US-PATENT-3,797,919 ..... c 70 N74-21300 *
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US-PATENT-3,799,813 ..... c 76 N74-20329 *
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US-PATENT-3,800,227 ..... c 32 N74-20809 *
US-PATENT-3,800,237 ..... c 32 N74-19788 *
US-PATENT-3,800,253 ..... c 37 N74-21056 *
US-PATENT-3,801,617 ..... c 37 N74-21058 *
US-PATENT-3,802,249 ..... c 35 N74-21019 *
US-PATENT-3,802,253 ..... c 52 N74-20726 *
US-PATENT-3,802,262 ..... c 35 N74-21018 *
US-PATENT-3,802,660 ..... c 37 N74-21065 *
US-PATENT-3,802,753 ..... c 37 N74-21064 *
US-PATENT-3,802,779 ..... c 74 N74-21304 *
US-PATENT-3,803,090 ..... c 27 N74-21156 *
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US-PATENT-3,803,445 ..... c 32 N74-20813 *
US-PATENT-3,803,617 ..... c 32 N74-20863 *
US-PATENT-3,804,472 ..... c 37 N74-21061 *
US-PATENT-3,804,506 ..... c 33 N74-20861 *
US-PATENT-3,804,525 ..... c 36 N74-21091 *
US-PATENT-3,804,703 ..... c 37 N74-21063 *
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US-PATENT-3,805,303 ..... c 54 N74-20725 *
US-PATENT-3,805,622 ..... c 35 N74-21062 *
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US-PATENT-3,806,802 ..... c 35 N74-21017 *
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US-PATENT-3,806,816 ..... c 32 N74-20810 *
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US-PATENT-3,807,656 ..... c 18 N74-22136 *
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US-PATENT-3,809,800 ..... c 33 N74-22865 *
US-PATENT-3,809,871 ..... c 52 N74-22771 *
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US-PATENT-3,814,653 ..... c 24 N74-27035 *
US-PATENT-3,814,678 ..... c 25 N74-26948 *
US-PATENT-3,814,939 ..... c 25 N74-26947 *
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US-PATENT-3,816,785 ..... c 73 N74-26767 *
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US-PATENT-3,819,440 ..... c 32 N74-27612 *
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US-PATENT-3,827,807 ..... c 89 N74-30886 *
US-PATENT-3,828,137 ..... c 32 N74-30524 *
US-PATENT-3,828,138 ..... c 32 N74-30523 *
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US-PATENT-3,842,509 ..... c 35 N75-12273 *
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US-PATENT-3,846,243 ..... c 25 N75-12086 *
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US-PATENT-3,847,141 ..... c 35 N75-12271 *
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US-PATENT-3,868,856 ..... c 35 N75-19614 *
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US-PATENT-3,869,160 ..... c 37 N75-19685 *
US-PATENT-3,869,210 ..... c 36 N75-19653 *
US-PATENT-3,869,212 ..... c 35 N75-19613 *
US-PATENT-3,869,597 ..... c 77 N75-20140 *
US-PATENT-3,869,615 ..... c 35 N75-19616 *
US-PATENT-3,869,624 ..... c 33 N75-18479 *
US-PATENT-3,869,659 ..... c 33 N75-19522 *
US-PATENT-3,869,667 ..... c 33 N75-19521 *
US-PATENT-3,869,676 ..... c 33 N75-19520 *
US-PATENT-3,869,680 ..... c 36 N75-19654 *
US-PATENT-3,869,779 ..... c 26 N75-19408 *
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US-PATENT-3,874,240 ..... c 35 N75-25122 *
US-PATENT-3,874,635 ..... c 37 N75-25185 *
US-PATENT-3,874,677 ..... c 37 N75-21631 *
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US-PATENT-3,875,394 ..... c 33 N75-26243 *
US-PATENT-3,875,404 ..... c 35 N75-23910 *
US-PATENT-3,875,435 ..... c 20 N75-24837 *
US-PATENT-3,875,500 ..... c 35 N75-21582 *
US-PATENT-3,875,584 ..... c 32 N75-21485 *
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US-PATENT-3,878,464 ..... c 32 N75-24981 *
US-PATENT-3,881,132 ..... c 33 N77-21315 *
US-PATENT-3,882,417 ..... c 36 N78-17366 *
US-PATENT-3,882,530 ..... c 76 N75-25730 *
US-PATENT-3,882,634 ..... c 51 N75-25503 *
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US-PATENT-3,883,215 ..... c 35 N75-25124 *
US-PATENT-3,883,436 ..... c 74 N75-25706 *
US-PATENT-3,883,689 ..... c 35 N75-25123 *
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US-PATENT-3,883,817 ..... c 33 N75-25040 *
US-PATENT-3,883,872 ..... c 32 N75-24962 *
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US-PATENT-3,887,365 ..... c 37 N75-26371 *
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US-PATENT-3,889,182 ..... c 33 N75-26245 *
US-PATENT-3,889,185 ..... c 33 N75-26246 *
US-PATENT-3,889,264 ..... c 32 N75-26194 *
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US-PATENT-3,893,458 ..... c 54 N75-27761 *
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US-PATENT-3,899,252 ..... c 35 N75-30502 *
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US-PATENT-3,899,680 ..... c 73 N75-30876 *
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US-PATENT-3,899,745 ..... c 33 N75-30429 *
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US-PATENT-3,905,660 ..... c 37 N75-31446 *
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US-PATENT-3,906,296 ..... c 33 N75-31331 *
US-PATENT-3,906,374 ..... c 33 N75-31330 *
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US-PATENT-3,906,397 ..... c 36 N75-31426 *
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US-PATENT-3,910,039 ..... c 20 N76-14191 *
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US-PATENT-3,910,307 ..... c 37 N76-14463 *
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US-PATENT-3,910,814 ..... c 24 N76-14204 *
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US-PATENT-3,911,330 ..... c 33 N76-14373 *
US-PATENT-3,912,540 ..... c 44 N76-14800 *
US-PATENT-3,912,541 ..... c 44 N76-14801 *
US-PATENT-3,912,999 ..... c 44 N76-18643 *
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US-PATENT-3,914,997 ..... c 35 N76-14429 *
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US-PATENT-3,915,148 ..... c 44 N76-14802 *
US-PATENT-3,915,416 ..... c 15 N76-14158 *
US-PATENT-3,915,482 ..... c 37 N76-14460 *
US-PATENT-3,915,572 ..... c 36 N76-14447 *
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US-PATENT-3,920,416 ..... c 44 N76-18642 *
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US-PATENT-3,924,137 ..... c 72 N76-15660 *
US-PATENT-3,924,164 ..... c 33 N76-15373 *
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US-PATENT-3,924,200 ..... c 35 N76-15436 *
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US-PATENT-3,924,267 ..... c 35 N76-16391 *
US-PATENT-3,924,444 ..... c 35 N76-15432 *
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US-PATENT-3,927,324 ..... c 35 N76-15439 *
US-PATENT-3,927,408 ..... c 32 N76-15329 *
US-PATENT-3,926,708 ..... c 27 N76-16230 *
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US-PATENT-3,930,735 ..... c 66 N76-19888 *
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US-PATENT-3,938,182 ..... c 33 N76-18353 *
US-PATENT-3,938,188 ..... c 33 N76-18345 *
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US-PATENT-3,938,373 ..... c 35 N76-18400 *
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US-PATENT-3,938,892 ..... c 74 N76-19935 *
US-PATENT-3,938,956 ..... c 35 N76-18403 *
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US-PATENT-3,940,621 ..... c 34 N76-18374 *
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US-PATENT-3,943,442 ..... c 76 N76-20994 *
US-PATENT-3,943,763 ..... c 04 N76-20114 *
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US-PATENT-3,948,470 ..... c 20 N76-21275 *
US-PATENT-3,949,206 ..... c 32 N76-21366 *
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US-PATENT-4,018,085 ..... c 35 N77-22449 *
US-PATENT-4,018,092 ..... c 37 N77-22482 *
US-PATENT-4,018,409 ..... c 37 N77-23483 *
US-PATENT-4,018,423 ..... c 54 N77-21844 *
US-PATENT-4,018,532 ..... c 74 N77-22951 *
US-PATENT-4,018,533 ..... c 74 N77-22950 *
US-PATENT-4,018,649 ..... c 51 N77-25769 *
US-PATENT-4,018,971 ..... c 44 N77-22606 *
US-PATENT-4,019,179 ..... c 32 N77-21267 *
US-PATENT-4,019,868 ..... c 44 N77-22607 *
US-PATENT-4,020,632 ..... c 07 N77-23106 *
US-PATENT-4,023,266 ..... c 33 N77-26385 *
US-PATENT-4,025,327 ..... c 35 N77-24455 *
US-PATENT-4,025,783 ..... c 74 N77-26942 *
US-PATENT-4,025,866 ..... c 33 N77-24375 *
US-PATENT-4,025,875 ..... c 36 N77-25499 *
US-PATENT-4,025,876 ..... c 71 N77-26919 *
US-PATENT-4,025,891 ..... c 35 N77-24454 *
US-PATENT-4,025,950 ..... c 32 N77-24326 *
US-PATENT-4,025,964 ..... c 52 N77-25772 *
US-PATENT-4,026,527 ..... c 34 N77-24423 *
US-PATENT-4,026,655 ..... c 36 N77-25501 *
US-PATENT-4,027,212 ..... c 33 N77-26386 *
US-PATENT-4,027,265 ..... c 32 N77-24331 *
US-PATENT-4,027,273 ..... c 36 N77-25502 *
US-PATENT-4,027,494 ..... c 35 N78-12390 *
US-PATENT-4,027,524 ..... c 09 N77-27131 *
US-PATENT-4,028,939 ..... c 34 N77-27345 *
US-PATENT-4,029,470 ..... c 51 N77-27677 *
US-PATENT-4,029,500 ..... c 24 N77-27187 *
US-PATENT-4,029,838 ..... c 24 N77-27188 *
US-PATENT-4,030,047 ..... c 35 N77-27366 *
US-PATENT-4,030,348 ..... c 39 N78-10493 *
US-PATENT-4,031,389 ..... c 36 N77-26477 *
US-PATENT-4,032,089 ..... c 24 N77-28225 *
US-PATENT-4,032,089 ..... c 27 N81-14077 *
US-PATENT-4,033,119 ..... c 07 N77-28118 *
US-PATENT-4,033,133 ..... c 28 N80-10374 *
US-PATENT-4,033,182 ..... c 39 N77-28511 *
US-PATENT-4,033,286 ..... c 25 N79-28253 *
US-PATENT-4,033,316 ..... c 33 N77-28385 *
US-PATENT-4,033,334 ..... c 52 N77-28717 *
US-PATENT-4,033,349 ..... c 52 N77-28716 *
US-PATENT-4,033,479 ..... c 37 N77-28487 *
US-PATENT-4,033,503 ..... c 26 N77-29260 *
US-PATENT-4,033,504 ..... c 26 N77-28265 *
US-PATENT-4,033,705 ..... c 07 N77-27116 *
US-PATENT-4,033,882 ..... c 32 N77-28346 *
US-PATENT-4,035,037 ..... c 37 N77-28486 *
US-PATENT-4,035,062 ..... c 74 N77-28932 *
US-PATENT-4,035,065 ..... c 74 N77-28933 *
US-PATENT-4,038,705 ..... c 54 N77-30749 *
US-PATENT-4,039-489 ..... c 27 N77-31308 *
US-PATENT-4,039-946 ..... c 35 N77-30436 *
US-PATENT-4,039,000 ..... c 34 N77-30399 *
US-PATENT-4,039,347 ..... c 27 N77-30237 *
US-PATENT-4,039,754 ..... c 32 N77-30309 *
US-PATENT-4,039,925 ..... c 33 N77-30365 *
US-PATENT-4,040,041 ..... c 33 N77-31404 *
US-PATENT-4,040,750 ..... c 35 N77-31465 *
US-PATENT-4,040,867 ..... c 44 N77-31601 *
US-PATENT-4,040,940 ..... c 37 N80-14397 *
US-PATENT-4,041,233 ..... c 27 N77-30236 *
US-PATENT-4,041,391 ..... c 32 N77-30308 *
US-PATENT-4,041,697 ..... c 37 N78-10467 *
US-PATENT-4,041,910 ..... c 37 N77-31497 *
US-PATENT-4,042,926 ..... c 32 N77-31350 *
US-PATENT-4,043,668 ..... c 35 N84-33766 *
US-PATENT-4,043,674 ..... c 36 N77-32478 *
US-PATENT-4,044,753 ..... c 44 N77-32582 *
US-PATENT-4,044,821 ..... c 44 N77-32581 *
US-PATENT-4,045,063 ..... c 37 N77-32499 *
US-PATENT-4,045,149 ..... c 07 N77-32148 *
US-PATENT-4,045,247 ..... c 35 N77-32454 *
US-PATENT-4,045,255 ..... c 26 N77-32279 *
US-PATENT-4,045,315 ..... c 44 N77-32580 *
US-PATENT-4,045,359 ..... c 25 N77-32255 *
US-PATENT-4,045,728 ..... c 35 N77-32455 *
US-PATENT-4,045,792 ..... c 60 N77-32731 *
US-PATENT-4,045,795 ..... c 32 N77-32342 *
US-PATENT-4,046,012 ..... c 35 N77-32456 *
US-PATENT-4,046,190 ..... c 34 N77-32413 *
US-PATENT-4,046,262 ..... c 54 N77-32721 *
US-PATENT-4,046,434 ..... c 37 N77-32500 *
US-PATENT-4,046,435 ..... c 37 N77-32501 *

US-PATENT-4,046,462 ..... c 44 N77-32583 *
US-PATENT-4,046,529 ..... c 54 N77-32722 *
US-PATENT-4,046,560 ..... c 26 N77-32280 *
US-PATENT-4,046,617 ..... c 76 N77-32919 *
US-PATENT-4,046,619 ..... c 27 N77-32308 *
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US-PATENT-4,051,834 ..... c 44 N78-10554 *
US-PATENT-4,051,877 ..... c 35 N78-10428 *
US-PATENT-4,052,144 ..... c 25 N78-10224 *
US-PATENT-4,052,181 ..... c 71 N78-10837 *
US-PATENT-4,052,302 ..... c 25 N78-10225 *
US-PATENT-4,052,523 ..... c 24 N78-10214 *
US-PATENT-4,052,614 ..... c 35 N78-10429 *
US-PATENT-4,052,648 ..... c 33 N78-10376 *
US-PATENT-4,052,659 ..... c 33 N78-10377 *
US-PATENT-4,052,666 ..... c 43 N78-10529 *
US-PATENT-4,052,705 ..... c 60 N78-10709 *
US-PATENT-4,053,229 ..... c 74 N78-13874 *
US-PATENT-4,053,231 ..... c 35 N78-18391 *
US-PATENT-4,053,918 ..... c 44 N78-13526 *
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US-PATENT-4,055,041 ..... c 07 N78-18066 *
US-PATENT-4,055,072 ..... c 35 N78-19465 *
US-PATENT-4,055,089 ..... c 35 N78-18390 *
US-PATENT-4,055,147 ..... c 35 N78-19466 *
US-PATENT-4,055,416 ..... c 26 N78-18182 *
US-PATENT-4,055,447 ..... c 26 N78-18183 *
US-PATENT-4,055,686 ..... c 37 N78-13436 *
US-PATENT-4,055,705 ..... c 34 N78-18355 *
US-PATENT-4,055,707 ..... c 44 N78-19599 *
US-PATENT-4,055,764 ..... c 35 N78-13400 *
US-PATENT-4,055,777 ..... c 33 N78-18308 *
US-PATENT-4,055,810 ..... c 36 N78-18410 *
US-PATENT-4,055,847 ..... c 33 N78-13320 *
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US-PATENT-4,061,041 ..... c 71 N78-14867 *
US-PATENT-4,061,146 ..... c 52 N78-14773 *
US-PATENT-4,061,190 ..... c 43 N78-14452 *
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US-PATENT-4,061,570 ..... c 54 N78-14784 *
US-PATENT-4,061,577 ..... c 74 N78-14889 *
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US-PATENT-4,061,812 ..... c 24 N78-15180 *
US-PATENT-4,061,834 ..... c 27 N78-14164 *
US-PATENT-4,061,856 ..... c 27 N78-15276 *
US-PATENT-4,061,955 ..... c 44 N78-14625 *
US-PATENT-4,061,974 ..... c 32 N78-15323 *
US-PATENT-4,062,227 ..... c 39 N78-15512 *
US-PATENT-4,062,245 ..... c 37 N78-16369 *
US-PATENT-4,062,347 ..... c 44 N78-15560 *
US-PATENT-4,062,650 ..... c 25 N78-15210 *
US-PATENT-4,062,996 ..... c 74 N78-15879 *
US-PATENT-4,063,088 ..... c 74 N78-15880 *
US-PATENT-4,063,092 ..... c 35 N78-15461 *
US-PATENT-4,063,282 ..... c 39 N78-16387 *
US-PATENT-4,063,814 ..... c 74 N78-17866 *
US-PATENT-4,063,981 ..... c 24 N78-17149 *
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US-PATENT-4,064,642 ..... c 54 N78-17675 *
US-PATENT-4,064,692 ..... c 37 N78-17384 *
US-PATENT-4,065,053 ..... c 44 N78-17460 *
US-PATENT-4,065,202 ..... c 35 N78-17357 *
US-PATENT-4,065,340 ..... c 24 N78-17150 *
US-PATENT-4,065,345 ..... c 27 N78-17205 *
US-PATENT-4,066,039 ..... c 37 N78-17383 *
US-PATENT-4,067,015 ..... c 17 N78-17140 *
US-PATENT-4,067,043 ..... c 74 N78-17865 *
US-PATENT-4,067,653 ..... c 74 N78-17867 *
US-PATENT-4,067,742 ..... c 27 N78-17206 *
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US-PATENT-4,068,495 ..... c 31 N78-17237 *
US-PATENT-4,068,763 ..... c 54 N78-17676 *
US-PATENT-4,069,028 ..... c 34 N78-17335 *
US-PATENT-4,069,212 ..... c 27 N78-17213 *
US-PATENT-4,069,478 ..... c 60 N78-17691 *
US-PATENT-4,069,661 ..... c 07 N78-18067 *
US-PATENT-4,070,574 ..... c 74 N78-18905 *
US-PATENT-4,072,532 ..... c 27 N78-19302 *
US-PATENT-4,075,057 ..... c 73 N78-19920 *
US-PATENT-4,077,231 ..... c 31 N78-25256 *
US-PATENT-4,077,678 ..... c 44 N78-24608 *
US-PATENT-4,077,766 ..... c 28 N78-24365 *
US-PATENT-4,077,788 ..... c 28 N81-14103 *
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US-PATENT-4,077,818 ..... c 44 N78-24609 *
US-PATENT-4,077,921 ..... c 24 N78-24290 *
US-PATENT-4,078,110 ..... c 34 N78-25350 *
US-PATENT-4,078,175 ..... c 76 N78-24950 *
US-PATENT-4,078,290 ..... c 37 N78-24544 *
US-PATENT-4,078,378 ..... c 37 N78-24545 *
US-PATENT-4,079,268 ..... c 32 N78-24391 *
US-PATENT-4,080,901 ..... c 20 N78-24275 *
US-PATENT-4,081,250 ..... c 44 N78-31527 *
US-PATENT-4,082,001 ..... c 35 N78-24515 *
US-PATENT-4,082,569 ..... c 44 N78-25527 *
US-PATENT-4,083,097 ..... c 44 N78-25528 *
US-PATENT-4,083,181 ..... c 07 N78-25089 *
US-PATENT-4,083,380 ..... c 37 N78-25426 *
US-PATENT-4,083,520 ..... c 15 N78-25119 *
US-PATENT-4,083,765 ..... c 35 N78-25391 *
US-PATENT-4,084,124 ..... c 44 N78-25531 *
US-PATENT-4,084,132 ..... c 33 N78-25319 *
US-PATENT-4,084,612 ..... c 34 N78-25351 *
US-PATENT-4,084,825 ..... c 07 N78-25090 *
US-PATENT-4,084,985 ..... c 44 N78-25529 *
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US-PATENT-4,085,241 ..... c 44 N78-25530 *
US-PATENT-4,085,332 ..... c 25 N78-25148 *
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US-PATENT-4,087,962 ..... c 34 N78-27357 *
US-PATENT-4,087,975 ..... c 44 N78-32542 *
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US-PATENT-4,088,094 ..... c 51 N78-27733 *
US-PATENT-4,088,270 ..... c 07 N78-27121 *
US-PATENT-4,088,291 ..... c 37 N78-27425 *
US-PATENT-4,088,312 ..... c 37 N78-27423 *
US-PATENT-4,088,408 ..... c 74 N78-27904 *
US-PATENT-4,088,532 ..... c 25 N78-27226 *
US-PATENT-4,088,806 ..... c 24 N78-27180 *
US-PATENT-4,088,926 ..... c 75 N78-27913 *
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US-PATENT-4,088,954 ..... c 35 N78-32397 *
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US-PATENT-4,089,209 ..... c 35 N78-27384 *
US-PATENT-4,089,705 ..... c 44 N78-27515 *
US-PATENT-4,090,213 ..... c 44 N80-29835 *
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US-PATENT-4,091,329 ..... c 33 N78-32339 *
US-PATENT-4,091,464 ..... c 54 N78-31735 *
US-PATENT-4,091,464 ..... c 54 N79-24651 *
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US-PATENT-4,092,274 ..... c 27 N78-31232 *
US-PATENT-4,092,466 ..... c 27 N78-32256 *
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US-PATENT-4,092,617 ..... c 33 N78-32340 *
US-PATENT-4,092,633 ..... c 54 N78-32720 *
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US-PATENT-4,093,156 ..... c 05 N78-32086 *
US-PATENT-4,093,354 ..... c 73 N78-32848 *
US-PATENT-4,093,382 ..... c 38 N78-32447 *
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US-PATENT-4,094,775 ..... c 52 N80-14687 *
US-PATENT-4,094,862 ..... c 27 N78-32261 *
US-PATENT-4,094,943 ..... c 27 N78-32262 *
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US-PATENT-4,099,799 ..... c 37 N79-10418 *
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US-PATENT-4,100,487 ..... c 33 N79-10337 *
US-PATENT-4,100,531 ..... c 32 N79-10263 *
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US-PATENT-4,101,644 ..... c 25 N79-10162 *
US-PATENT-4,101,780 ..... c 35 N79-10389 *
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US-PATENT-4,106,587 ..... c 71 N79-14871 *
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US-PATENT-4,111,058 ..... c 35 N79-14347 *
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US-PATENT-4,111,775 ..... c 76 N79-14906 *
US-PATENT-4,111,851 ..... c 24 N79-14156 *
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US-PATENT-4,121,995 ..... c 25 N79-11152 *
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US-PATENT-4,122,334 ..... c 74 N79-12690 *
US-PATENT-4,122,383 ..... c 44 N79-12541 *
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US-PATENT-4,122,991 ..... c 18 N79-11108 *
US-PATENT-4,123,355 ..... c 45 N79-12584 *
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US-PATENT-4,134,786 ..... c 85 N79-17747 *
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US-PATENT-4,139,862 ..... c 32 N79-20297 *
US-PATENT-4,140,972 ..... c 32 N79-20296 *
US-PATENT-4,141,219 ..... c 34 N79-20335 *
US-PATENT-4,141,224 ..... c 34 N79-20338 *
US-PATENT-4,141,259 ..... c 37 N79-20377 *

US-PATENT-4,142,101 ..... c 74 N79-20857 *
US-PATENT-4,142,119 ..... c 33 N79-20314 *
US-PATENT-4,143,314 ..... c 20 N79-20179 *
US-PATENT-4,145,056 ..... c 37 N79-22475 *
US-PATENT-4,145,255 ..... c 25 N79-22235 *
US-PATENT-4,145,524 ..... c 27 N79-22300 *
US-PATENT-4,145,933 ..... c 39 N79-22537 *
US-PATENT-4,146,180 ..... c 37 N79-22474 *
US-PATENT-4,146,387 ..... c 25 N81-33246 *
US-PATENT-4,146,409 ..... c 26 N79-22271 *
US-PATENT-4,148,031 ..... c 32 N79-24210 *
US-PATENT-4,148,295 ..... c 44 N79-23481 *
US-PATENT-4,148,375 ..... c 46 N79-22679 *
US-PATENT-4,148,452 ..... c 08 N79-23097 *
US-PATENT-4,148,962 ..... c 24 N79-24062 *
US-PATENT-4,149,034 ..... c 71 N79-23753 *
US-PATENT-4,149,233 ..... c 33 N79-24257 *
US-PATENT-4,149,276 ..... c 54 N79-24652 *
US-PATENT-4,149,423 ..... c 32 N79-24203 *
US-PATENT-4,149,521 ..... c 44 N79-24433 *
US-PATENT-4,149,665 ..... c 44 N79-24431 *
US-PATENT-4,149,817 ..... c 44 N79-24432 *
US-PATENT-4,149,938 ..... c 25 N79-24073 *
US-PATENT-4,150,425 ..... c 33 N79-24254 *
US-PATENT-4,151,066 ..... c 34 N79-24285 *
US-PATENT-4,151,456 ..... c 33 N79-23345 *
US-PATENT-4,151,612 ..... c 54 N79-24651 *
US-PATENT-4,151,800 ..... c 24 N79-25142 *
US-PATENT-4,152,194 ..... c 76 N79-23798 *
US-PATENT-4,153,134 ..... c 46 N79-23555 *
US-PATENT-4,153,476 ..... c 44 N79-25482 *
US-PATENT-4,153,818 ..... c 32 N79-23310 *
US-PATENT-4,154,084 ..... c 43 N79-25443 *
US-PATENT-4,154,228 ..... c 52 N79-27836 *
US-PATENT-4,154,230 ..... c 52 N79-26771 *
US-PATENT-4,154,258 ..... c 05 N79-24976 *
US-PATENT-4,154,501 ..... c 33 N81-29342 *
US-PATENT-4,154,912 ..... c 44 N79-25481 *
US-PATENT-4,155,475 ..... c 24 N79-25143 *
US-PATENT-4,156,309 ..... c 44 N79-26475 *
US-PATENT-4,156,548 ..... c 35 N79-26372 *
US-PATENT-4,156,752 ..... c 15 N79-26100 *
US-PATENT-4,156,971 ..... c 43 N79-26439 *
US-PATENT-4,157,655 ..... c 43 N80-14423 *
US-PATENT-4,157,718 ..... c 52 N80-14684 *
US-PATENT-4,158,583 ..... c 28 N79-26342 *
US-PATENT-4,158,742 ..... c 12 N79-26075 *
US-PATENT-4,158,775 ..... c 72 N80-14877 *
US-PATENT-4,158,895 ..... c 52 N79-26772 *
US-PATENT-4,159,262 ..... c 27 N79-26307 *
US-PATENT-4,159,366 ..... c 44 N79-26474 *
US-PATENT-4,159,634 ..... c 37 N79-26550 *
US-PATENT-4,160,254 ..... c 33 N79-26416 *
US-PATENT-4,160,508 ..... c 37 N79-26551 *
US-PATENT-4,160,601 ..... c 35 N79-26527 *
US-PATENT-4,161,661 ..... c 33 N79-26415 *
US-PATENT-4,161,731 ..... c 31 N79-26370 *
US-PATENT-4,161,747 ..... c 37 N79-26549 *
US-PATENT-4,162,169 ..... c 24 N79-31347 *
US-PATENT-4,162,701 ..... c 34 N79-31523 *
US-PATENT-4,162,928 ..... c 44 N79-31753 *
US-PATENT-4,163,678 ..... c 44 N79-31752 *
US-PATENT-4,164,079 ..... c 09 N79-31228 *
US-PATENT-4,164,718 ..... c 32 N80-14281 *
US-PATENT-4,165,460 ..... c 43 N79-31706 *
US-PATENT-4,166,170 ..... c 27 N79-33316 *
US-PATENT-4,166,170 ..... c 27 N81-14078 *
US-PATENT-4,166,959 ..... c 74 N79-34011 *
US-PATENT-4,167,111 ..... c 46 N80-10709 *
US-PATENT-4,168,287 ..... c 27 N80-10358 *
US-PATENT-4,168,483 ..... c 39 N80-10507 *
US-PATENT-4,168,706 ..... c 54 N80-10799 *
US-PATENT-4,168,718 ..... c 20 N80-10278 *
US-PATENT-4,168,939 ..... c 05 N80-14107 *
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US-PATENT-4,170,776 ..... c 46 N80-14603 *
US-PATENT-4,170,987 ..... c 52 N81-27783 *
US-PATENT-4,171,615 ..... c 20 N80-14188 *
US-PATENT-4,171,645 ..... c 35 N80-14371 *
US-PATENT-4,172,226 ..... c 33 N80-14332 *
US-PATENT-4,172,786 ..... c 45 N80-14579 *
US-PATENT-4,172,883 ..... c 26 N80-14229 *
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US-PATENT-4,173,324 ..... c 37 N80-14396 *
US-PATENT-4,173,397 ..... c 44 N80-14473 *
US-PATENT-4,173,820 ..... c 44 N80-14474 *
US-PATENT-4,175,249 ..... c 44 N80-14472 *
US-PATENT-4,176,007 ..... c 51 N80-16714 *
US-PATENT-4,176,360 ..... c 18 N80-14183 *
US-PATENT-4,176,662 ..... c 52 N80-16725 *
US-PATENT-4,176,950 ..... c 36 N80-16321 *
US-PATENT-4,177,325 ..... c 44 N80-16452 *
US-PATENT-4,177,333 ..... c 25 N80-16116 *
US-PATENT-4,178,100 ..... c 35 N80-16359 *
US-PATENT-4,180,648 ..... c 27 N80-16158 *
US-PATENT-4,181,589 ..... c 51 N80-16715 *

US-PATENT-4,182,158 ..... c 35 N80-18358 *
US-PATENT-4,183,217 ..... c 20 N80-18097 *
US-PATENT-4,184,072 ..... c 44 N80-18552 *
US-PATENT-4,184,111 ..... c 44 N80-18551 *
US-PATENT-4,184,149 ..... c 06 N80-18036 *
US-PATENT-4,184,155 ..... c 43 N80-18498 *
US-PATENT-4,184,327 ..... c 07 N80-18039 *
US-PATENT-4,184,368 ..... c 48 N80-18667 *
US-PATENT-4,184,472 ..... c 76 N80-18951 *
US-PATENT-4,184,491 ..... c 52 N80-18690 *
US-PATENT-4,184,609 ..... c 37 N80-18393 *
US-PATENT-4,184,903 ..... c 44 N80-18550 *
US-PATENT-4,185,164 ..... c 33 N80-18286 *
US-PATENT-4,185,493 ..... c 35 N80-18357 *
US-PATENT-4,186,347 ..... c 32 N80-18253 *
US-PATENT-4,186,749 ..... c 52 N80-18691 *
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US-PATENT-4,187,416 ..... c 33 N80-18285 *
US-PATENT-4,187,470 ..... c 36 N80-18372 *
US-PATENT-4,187,506 ..... c 33 N80-18287 *
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US-PATENT-4,188,823 ..... c 02 N80-20224 *
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US-PATENT-4,189,675 ..... c 32 N80-20446 *
US-PATENT-4,189,914 ..... c 07 N81-29129 *
US-PATENT-4,190,060 ..... c 52 N81-29763 *
US-PATENT-4,190,626 ..... c 24 N81-29163 *
US-PATENT-4,191,159 ..... c 37 N80-29703 *
US-PATENT-4,191,505 ..... c 44 N80-21828 *
US-PATENT-4,191,893 ..... c 44 N80-29834 *
US-PATENT-4,192,290 ..... c 44 N50-20810 *
US-PATENT-4,192,910 ..... c 33 N80-20487 *
US-PATENT-4,192,910 ..... c 44 N81-29524 *
US-PATENT-4,192,994 ..... c 74 N80-21140 *
US-PATENT-4,193,388 ..... c 44 N80-20808 *
US-PATENT-4,193,435 ..... c 37 N80-23653 *
US-PATENT-4,193,570 ..... c 35 N80-21719 *
US-PATENT-4,193,693 ..... c 35 N80-20563 *
US-PATENT-4,193,827 ..... c 28 N80-20402 *
US-PATENT-4,193,827 ..... c 28 N81-14103 *
US-PATENT-4,194,115 ..... c 25 N80-20334 *
US-PATENT-4,195,244 ..... c 35 N80-20559 *
US-PATENT-4,195,279 ..... c 35 N80-20560 *
US-PATENT-4,195,512 ..... c 43 N80-23711 *
US-PATENT-4,195,666 ..... c 37 N80-23654 *
US-PATENT-4,196,129 ..... c 27 N80-32515 *
US-PATENT-4,196,619 ..... c 46 N80-24906 *
US-PATENT-4,196,840 ..... c 37 N80-23655 *
US-PATENT-4,197,530 ..... c 33 N80-23559 *
US-PATENT-4,198,209 ..... c 28 N80-23471 *
US-PATENT-4,198,232 ..... c 26 N80-23419 *
US-PATENT-4,198,788 ..... c 74 N80-24149 *
US-PATENT-4,198,792 ..... c 25 N80-23383 *
US-PATENT-4,198,986 ..... c 52 N80-23969 *
US-PATENT-4,199,448 ..... c 27 N80-23452 *
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US-PATENT-4,199,764 ..... c 32 N80-23524 *
US-PATENT-4,199,937 ..... c 34 N80-24573 *
US-PATENT-4,199,937 ..... c 44 N81-24519 *
US-PATENT-4,200,721 ..... c 27 N80-24436 *
US-PATENT-4,201,466 ..... c 32 N80-24510 *
US-PATENT-4,203,723 ..... c 27 N80-26446 *
US-PATENT-4,204,037 ..... c 51 N80-27067 *
US-PATENT-4,204,154 ..... c 33 N80-26599 *
US-PATENT-4,204,402 ..... c 07 N80-26298 *
US-PATENT-4,204,544 ..... c 52 N80-27072 *
US-PATENT-4,204,899 ..... c 24 N80-26388 *
US-PATENT-4,205,229 ..... c 35 N80-26635 *
US-PATENT-4,206,383 ..... c 72 N80-27163 *
US-PATENT-4,206,713 ..... c 31 N81-15154 *
US-PATENT-4,206,970 ..... c 74 N80-27185 *
US-PATENT-4,207,024 ..... c 37 N80-26658 *
US-PATENT-4,207,024 ..... c 37 N82-19540 *
US-PATENT-4,209,393 ..... c 45 N82-11634 *
US-PATENT-4,209,561 ..... c 24 N81-13999 *
US-PATENT-4,210,278 ..... c 31 N80-32583 *
US-PATENT-4,210,401 ..... c 35 N80-28687 *
US-PATENT-4,210,474 ..... c 28 N80-28536 *
US-PATENT-4,210,622 ..... c 44 N80-24741 *
US-PATENT-4,211,354 ..... c 24 N81-17170 *
US-PATENT-4,211,354 ..... c 24 N81-26179 *
US-PATENT-4,212,199 ..... c 02 N80-28300 *
US-PATENT-4,212,297 ..... c 51 N81-14605 *
US-PATENT-4,212,477 ..... c 37 N80-28711 *
US-PATENT-4,212,477 ..... c 37 N81-26447 *
US-PATENT-4,212,690 ..... c 26 N80-28492 *
US-PATENT-4,213,051 ..... c 35 N80-28686 *
US-PATENT-4,213,084 ..... c 60 N81-15706 *
US-PATENT-4,213,131 ..... c 32 N80-28578 *
US-PATENT-4,213,684 ..... c 74 N81-17886 *
US-PATENT-4,214,226 ..... c 31 N80-32584 *
US-PATENT-4,214,703 ..... c 07 N80-32392 *
US-PATENT-4,214,902 ..... c 26 N80-32484 *
US-PATENT-4,214,905 ..... c 24 N80-33482 *
US-PATENT-4,215,273 ..... c 74 N80-33210 *
US-PATENT-4,215,327 ..... c 32 N80-32605 *

US-PATENT-4,215,345 ..... c 04 N80-32359 *
US-PATENT-4,215,548 ..... c 37 N80-31790 *
US-PATENT-4,215,590 ..... c 37 N80-32717 *
US-PATENT-4,215,592 ..... c 37 N80-32716 *
US-PATENT-4,216,186 ..... c 76 N80-32244 *
US-PATENT-4,216,542 ..... c 33 N81-15192 *
US-PATENT-4,217,165 ..... c 76 N80-32245 *
US-PATENT-4,217,633 ..... c 44 N81-12542 *
US-PATENT-4,218,260 ..... c 27 N80-32516 *
US-PATENT-4,218,633 ..... c 72 N80-33186 *
US-PATENT-4,218,650 ..... c 33 N80-32650 *
US-PATENT-4,218,682 ..... c 32 N80-32604 *
US-PATENT-4,218,685 ..... c 32 N81-14187 *
US-PATENT-4,218,892 ..... c 35 N81-14287 *
US-PATENT-4,218,921 ..... c 71 N81-15767 *
US-PATENT-4,218,941 ..... c 37 N81-14319 *
US-PATENT-4,219,027 ..... c 52 N81-14612 *
US-PATENT-4,219,084 ..... c 31 N81-14137 *
US-PATENT-4,219,107 ..... c 37 N81-15364 *
US-PATENT-4,219,171 ..... c 37 N81-14320 *
US-PATENT-4,219,203 ..... c 37 N81-15363 *
US-PATENT-4,219,926 ..... c 44 N81-14389 *
US-PATENT-4,220,171 ..... c 07 N81-14999 *
US-PATENT-4,221,005 ..... c 32 N81-15179 *
US-PATENT-4,222,096 ..... c 33 N81-14220 *
US-PATENT-4,225,102 ..... c 02 N81-14968 *
US-PATENT-4,225,372 ..... c 27 N81-14077 *
US-PATENT-4,226,475 ..... c 43 N81-26509 *
US-PATENT-4,227,096 ..... c 33 N81-17348 *
US-PATENT-4,228,422 ..... c 33 N81-14221 *
US-PATENT-4,228,656 ..... c 37 N81-14318 *
US-PATENT-4,229,182 ..... c 28 N81-15119 *
US-PATENT-4,229,196 ..... c 28 N81-14103 *
US-PATENT-4,229,473 ..... c 24 N81-14000 *
US-PATENT-4,229,473 ..... c 24 N81-33235 *
US-PATENT-4,230,717 ..... c 52 N81-14613 *
US-PATENT-4,233,256 ..... c 27 N81-14078 *
US-PATENT-4,233,606 ..... c 32 N81-14185 *
US-PATENT-4,234,258 ..... c 25 N81-14015 *
US-PATENT-4,234,715 ..... c 25 N81-14016 *
US-PATENT-4,234,971 ..... c 32 N81-14186 *
US-PATENT-4,235,060 ..... c 37 N81-14317 *
US-PATENT-4,236,383 ..... c 44 N81-17518 *
US-PATENT-4,236,684 ..... c 06 N81-19130 *
US-PATENT-4,237,662 ..... c 31 N81-27323 *
US-PATENT-4,238,911 ..... c 31 N81-27324 *
US-PATENT-4,239,057 ..... c 37 N81-17433 *
US-PATENT-4,240,256 ..... c 37 N81-17432 *
US-PATENT-4,240,290 ..... c 06 N81-17057 *
US-PATENT-4,240,601 ..... c 43 N81-17499 *
US-PATENT-4,241,308 ..... c 33 N81-17349 *
US-PATENT-4,241,312 ..... c 35 N81-19427 *
US-PATENT-4,242,496 ..... c 27 N81-17259 *
US-PATENT-4,242,553 ..... c 33 N81-19389 *
US-PATENT-4,242,864 ..... c 07 N81-19116 *
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US-PATENT-4,243,327 ..... c 74 N81-17887 *
US-PATENT-4,244,215 ..... c 04 N81-21047 *
US-PATENT-4,244,810 ..... c 09 N82-29330 *
US-PATENT-4,244,853 ..... c 27 N81-19296 *
US-PATENT-4,244,857 ..... c 27 N81-17260 *
US-PATENT-4,245,085 ..... c 27 N81-17262 *
US-PATENT-4,245,286 ..... c 33 N81-19392 *
US-PATENT-4,245,288 ..... c 33 N81-19393 *
US-PATENT-4,245,469 ..... c 44 N81-24519 *
US-PATENT-4,245,566 ..... c 31 N81-19343 *
US-PATENT-4,245,768 ..... c 37 N81-19455 *
US-PATENT-4,245,956 ..... c 05 N81-19087 *
US-PATENT-4,246,001 ..... c 27 N81-17261 *
US-PATENT-4,246,901 ..... c 52 N81-24711 *
US-PATENT-4,247,434 ..... c 25 N81-19242 *
US-PATENT-4,248,083 ..... c 35 N81-19426 *
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US-PATENT-4,249,957 ..... c 44 N81-19558 *
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US-PATENT-4,252,111 ..... c 52 N81-25661 *
US-PATENT-4,252,440 ..... c 39 N81-25400 *
US-PATENT-4,252,768 ..... c 37 N81-25371 *
US-PATENT-4,253,156 ..... c 34 N81-26402 *
US-PATENT-4,253,769 ..... c 25 N81-25159 *
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US-PATENT-4,255,495 ..... c 26 N81-25186 *
US-PATENT-4,255,929 ..... c 37 N81-25370 *
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US-PATENT-4,258,366 ..... c 32 N81-25278 *
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US-PATENT-4,259,825 ..... c 31 N81-25259 *
US-PATENT-4,260,166 ..... c 37 N81-24442 *
US-PATENT-4,260,187 ..... c 37 N81-27519 *
US-PATENT-4,261,349 ..... c 52 N81-25662 *
US-PATENT-4,261,537 ..... c 08 N81-24106 *
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US-PATENT-4,262,080 ..... c 27 N81-25209 *
US-PATENT-4,262,195 ..... c 44 N81-24520 *
US-PATENT-4,262,198 ..... c 74 N83-19597 *
US-PATENT-4,262,206 ..... c 74 N81-24900 *
US-PATENT-4,262,258 ..... c 33 N81-27396 *
US-PATENT-4,262,259 ..... c 33 N81-24338 *
US-PATENT-4,263,112 ..... c 28 N81-24280 *
US-PATENT-4,264,310 ..... c 54 N81-27806 *
US-PATENT-4,264,728 ..... c 51 N81-26696 *
US-PATENT-4,264,802 ..... c 35 N81-26431 *
US-PATENT-4,264,906 ..... c 33 N81-26358 *
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US-PATENT-4,264,984 ..... c 60 N81-27814 *
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US-PATENT-4,269,787 ..... c 27 N81-24256 *
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US-PATENT-4,272,302 ..... c 33 N81-26360 *
US-PATENT-4,272,470 ..... c 23 N81-29160 *
US-PATENT-4,272,720 ..... c 47 N82-24779 *
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US-PATENT-4,275,453 ..... c 33 N82-24417 *
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US-PATENT-4,276,344 ..... c 27 N85-21347 *
US-PATENT-4,276,403 ..... c 27 N81-27271 *
US-PATENT-4,276,553 ..... c 32 N81-27341 *
US-PATENT-4,276,588 ..... c 33 N81-33404 *
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US-PATENT-4,287,579 ..... c 32 N82-18443 *
US-PATENT-4,287,606 ..... c 74 N82-19029 *
US-PATENT-4,287,839 ..... c 25 N82-11144 *
US-PATENT-4,288,585 ..... c 27 N82-18389 *
US-PATENT-4,288,982 ..... c 20 N82-18314 *
US-PATENT-4,290,612 ..... c 37 N82-16408 *
US-PATENT-4,290,779 ..... c 44 N82-16475 *
US-PATENT-4,291,294 ..... c 04 N82-16059 *
US-PATENT-4,291,887 ..... c 37 N82-12442 *
US-PATENT-4,292,375 ..... c 24 N82-24296 *
US-PATENT-4,292,634 ..... c 32 N82-12297 *
US-PATENT-4,293,522 ..... c 25 N82-12166 *
US-PATENT-4,294,261 ..... c 52 N82-11770 *
US-PATENT-4,294,264 ..... c 52 N82-22875 *
US-PATENT-4,295,111 ..... c 33 N82-11357 *
US-PATENT-4,295,140 ..... c 35 N82-15381 *
US-PATENT-4,295,786 ..... c 37 N82-19540 *
US-PATENT-4,298,633 ..... c 33 N82-18493 *
US-PATENT-4,298,926 ..... c 33 N82-18494 *
US-PATENT-4,298,987 ..... c 60 N82-16747 *
US-PATENT-4,299,492 ..... c 36 N82-16306 *
US-PATENT-4,300,106 ..... c 36 N82-13415 *
US-PATENT-4,300,159 ..... c 43 N82-13465 *

US-PATENT-4,300,656 ..... c 71 N82-16800 *
US-PATENT-4,300,723 ..... c 34 N82-13376 *
US-PATENT-4,301,740 ..... c 37 N82-21587 *
US-PATENT-4,302,223 ..... c 25 N82-21269 *
US-PATENT-4,302,734 ..... c 33 N82-16340 *
US-PATENT-4,303,961 ..... c 28 N82-18401 *
US-PATENT-4,304,219 ..... c 44 N82-18686 *
US-PATENT-4,304,320 ..... c 37 N82-18601 *
US-PATENT-4,305,205 ..... c 37 N82-26672 *
US-PATENT-4,307,024 ..... c 25 N82-24312 *
US-PATENT-4,307,510 ..... c 60 N82-24839 *
US-PATENT-4,307,575 ..... c 44 N82-26776 *
US-PATENT-4,307,856 ..... c 05 N82-26277 *
US-PATENT-4,308,309 ..... c 27 N82-24339 *
US-PATENT-4,308,868 ..... c 52 N82-29863 *
US-PATENT-4,309,039 ..... c 37 N82-24490 *
US-PATENT-4,309,146 ..... c 44 N82-24639 *
US-PATENT-4,309,372 ..... c 25 N82-21268 *
US-PATENT-4,310,049 ..... c 25 N82-23282 *
US-PATENT-4,310,132 ..... c 24 N82-26384 *
US-PATENT-4,310,574 ..... c 27 N82-28441 *
US-PATENT-4,310,906 ..... c 33 N82-26572 *
US-PATENT-4,311,055 ..... c 54 N82-26987 *
US-PATENT-4,311,057 ..... c 37 N82-24493 *
US-PATENT-4,311,378 ..... c 35 N82-26628 *
US-PATENT-4,311,615 ..... c 25 N82-26396 *
US-PATENT-4,311,870 ..... c 44 N82-26777 *
US-PATENT-4,312,292 ..... c 37 N82-24492 *
US-PATENT-4,313,077 ..... c 33 N82-26569 *
US-PATENT-4,313,103 ..... c 33 N82-26570 *
US-PATENT-4,315,291 ..... c 09 N82-29330 *
US-PATENT-4,313,726 ..... c 09 N82-24212 *
US-PATENT-4,313,745 ..... c 27 N82-28442 *
US-PATENT-4,313,777 ..... c 33 N82-26571 *
US-PATENT-4,314,984 ..... c 25 N82-28368 *
US-PATENT-4,315,194 ..... c 33 N82-26568 *
US-PATENT-4,315,197 ..... c 33 N82-24421 *
US-PATENT-4,315,266 ..... c 32 N82-27558 *
US-PATENT-4,316,035 ..... c 23 N82-28353 *
US-PATENT-4,317,102 ..... c 35 N82-24470 *
US-PATENT-4,319,133 ..... c 33 N82-28545 *
US-PATENT-4,320,290 ..... c 74 N82-24072 *
US-PATENT-4,320,397 ..... c 32 N82-23376 *
US-PATENT-4,320,911 ..... c 37 N82-24494 *
US-PATENT-4,321,099 ..... c 44 N82-26780 *
US-PATENT-4,321,572 ..... c 33 N82-24422 *
US-PATENT-4,325,001 ..... c 35 N82-24471 *
US-PATENT-4,325,707 ..... c 25 N82-29371 *
US-PATENT-4,326,381 ..... c 44 N82-24640 *
US-PATENT-4,326,685 ..... c 04 N82-23231 *
US-PATENT-4,327,150 ..... c 27 N82-24340 *
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US-PATENT-4,327,581 ..... c 09 N82-23254 *
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US-PATENT-4,329,114 ..... c 07 N82-32366 *
US-PATENT-4,329,365 ..... c 27 N82-28440 *
US-PATENT-4,330,100 ..... c 05 N82-28279 *
US-PATENT-4,330,359 ..... c 76 N82-30105 *
US-PATENT-4,330,572 ..... c 27 N82-33520 *
US-PATENT-4,331,422 ..... c 52 N82-29862 *
US-PATENT-4,331,742 ..... c 44 N82-29710 *
US-PATENT-4,331,746 ..... c 44 N82-29708 *
US-PATENT-4,331,873 ..... c 44 N82-32841 *
US-PATENT-4,331,956 ..... c 33 N82-29536 *
US-PATENT-4,332,441 ..... c 36 N82-29589 *
US-PATENT-4,335,190 ..... c 27 N83-31855 *
US-PATENT-4,335,196 ..... c 44 N83-13579 *
US-PATENT-4,335,206 ..... c 35 N82-26604 *
US-PATENT-4,335,503 ..... c 44 N82-29709 *
US-PATENT-4,336,117 ..... c 26 N82-29415 *
US-PATENT-4,336,276 ..... c 27 N82-29453 *
US-PATENT-4,336,6*6 ..... c 33 N82-29539 *
US-PATENT-4,338,061 ..... c 07 N83-31603 *
US-PATENT-4,338,368 ..... c 27 N82-29456 *
US-PATENT-4,338,371 ..... c 24 N82-29362 *
US-PATENT-4,338,371 ..... c 54 N84-11758 *
US-PATENT-4,338,516 ..... c 74 N82-30071 *
US-PATENT-4,338,568 ..... c 33 N83-31954 *
US-PATENT-4,340,318 ..... c 37 N82-32732 *
US-PATENT-4,340,425 ..... c 26 N82-31505 *
US-PATENT-4,341,012 ..... c 35 N82-31659 *
US-PATENT-4,341,843 ..... c 26 N82-30371 *
US-PATENT-4,341,918 ..... c 44 N82-31764 *
US-PATENT-4,341,925 ..... c 32 N82-31583 *
US-PATENT-4,343,287 ..... c 37 N82-32730 *
US-PATENT-4,343,447 ..... c 06 N82-32373 *
US-PATENT-4,343,506 ..... c 85 N82-33288 *
US-PATENT-4,343,584 ..... c 37 N82-32731 *
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US-PATENT-4,344,787 ..... c 31 N83-31896 *
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US-PATENT-4,345,153 ..... c 35 N82-32659 *
US-PATENT-4,346,506 ..... c 06 N83-10040 *
US-PATENT-4,346,595 ..... c 06 N84-34443 *
US-PATENT-4,346,715 ..... c 52 N82-33996 *

US-PATENT-4,346,754 ..... c 34 N83-34221 *
US-PATENT-4,346,990 ..... c 36 N82-32712 *
US-PATENT-4,347,613 ..... c 36 N83-10417 *
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US-PATENT-4,349,424 ..... c 70 N84-28565 *
US-PATENT-4,349,429 ..... c 25 N83-10126 *
US-PATENT-4,349,954 ..... c 26 N83-10170 *
US-PATENT-4,350,410 ..... c 74 N83-10900 *
US-PATENT-4,350,574 ..... c 44 N83-10494 *
US-PATENT-4,351,022 ..... c 33 N83-10345 *
US-PATENT-4,355,311 ..... c 32 N83-31918 *
US-PATENT-4,355,870 ..... c 74 N83-13978 *
US-PATENT-4,355,896 ..... c 47 N83-32232 *
US-PATENT-4,357,402 ..... c 25 N83-13188 *
US-PATENT-4,358,358 ..... c 25 N83-13187 *
US-PATENT-4,358,480 ..... c 24 N83-13172 *
US-PATENT-4,358,486 ..... c 24 N83-13171 *
US-PATENT-4,358,732 ..... c 33 N83-18998 *
US-PATENT-4,358,846 ..... c 32 N83-13323 *
US-PATENT-4,360,325 ..... c 44 N83-14693 *
US-PATENT-4,360,701 ..... c 44 N83-14692 *
US-PATENT-4,362,361 ..... c 74 N83-17305 *
US-PATENT-4,362,769 ..... c 27 N83-34038 *
US-PATENT-4,363,186 ..... c 51 N83-17045 *
US-PATENT-4,363,237 ..... c 71 N83-17235 *
US-PATENT-4,363,242 ..... c 33 N83-16626 *
US-PATENT-4,366,680 ..... c 31 N83-31897 *
US-PATENT-4,370,750 ..... c 34 N83-19015 *
US-PATENT-4,371,301 ..... c 37 N83-19091 *
US-PATENT-4,371,596 ..... c 44 N83-32176 *
US-PATENT-4,371,873 ..... c 32 N83-19968 *
US-PATENT-4,371,946 ..... c 32 N83-18975 *
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US-PATENT-4,372,156 ..... c 44 N83-21503 *
US-PATENT-4,372,159 ..... c 44 N83-21504 *
US-PATENT-4,372,377 ..... c 74 N83-19596 *
US-PATENT-4,372,680 ..... c 35 N83-21311 *
US-PATENT-4,373,003 ..... c 27 N83-18909 *
US-PATENT-4,373,039 ..... c 27 N83-19900 *
US-PATENT-4,373,142 ..... c 44 N83-32175 *
US-PATENT-4,373,989 ..... c 76 N83-20789 *
US-PATENT-4,374,183 ..... c 26 N83-31795 *
US-PATENT-4,374,378 ..... c 35 N83-34272 *
US-PATENT-4,375,281 ..... c 05 N83-19737 *
US-PATENT-4,375,396 ..... c 31 N83-19947 *
US-PATENT-4,375,536 ..... c 27 N83-34040 *
US-PATENT-4,375,674 ..... c 39 N83-20280 *
US-PATENT-4,376,637 ..... c 35 N84-17555 *
US-PATENT-4,376,872 ..... c 44 N83-32177 *
US-PATENT-4,377,089 ..... c 35 N83-21312 *
US-PATENT-4,377,169 ..... c 52 N83-21785 *
US-PATENT-4,377,266 ..... c 07 N83-20944 *
US-PATENT-4,377,343 ..... c 74 N83-21949 *
US-PATENT-4,377,371 ..... c 18 N83-20996 *
US-PATENT-4,377,371 ..... c 37 N84-22957 *
US-PATENT-4,377,949 ..... c 45 N83-25217 *
US-PATENT-4,378,209 ..... c 35 N83-24829 *
US-PATENT-4,378,813 ..... c 52 N83-25348 *
US-PATENT-4,379,970 ..... c 33 N83-24763 *
US-PATENT-4,380,046 ..... c 60 N83-25378 *
US-PATENT-4,381,174 ..... c 37 N83-26078 *
US-PATENT-4,381,333 ..... c 44 N83-34448 *
US-PATENT-4,381,375 ..... c 37 N83-34323 *
US-PATENT-4,381,583 ..... c 31 N83-31895 *
US-PATENT-4,381,881 ..... c 74 N83-29032 *
US-PATENT-4,382,116 ..... c 44 N83-27344 *
US-PATENT-4,382,224 ..... c 33 N83-27126 *
US-PATENT-4,382,239 ..... c 32 N83-27085 *
US-PATENT-4,383,171 ..... c 35 N83-27184 *
US-PATENT-4,383,533 ..... c 52 N83-27578 *
US-PATENT-4,383,785 ..... c 31 N83-27056 *
US-PATENT-4,384,578 ..... c 52 N83-27577 *
US-PATENT-4,384,823 ..... c 34 N83-27144 *
US-PATENT-4,385,043 ..... c 24 N83-25780 *
US-PATENT-4,385,113 ..... c 51 N83-27569 *
US-PATENT-4,385,949 ..... c 31 N83-34073 *
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US-PATENT-4,386,750 ..... c 18 N83-28064 *
US-PATENT-4,387,513 ..... c 06 N83-33882 *
US-PATENT-4,387,935 ..... c 37 N83-32067 *
US-PATENT-4,388,171 ..... c 23 N84-16255 *
US-PATENT-4,388,346 ..... c 33 N84-16456 *
US-PATENT-4,388,502 ..... c 05 N83-27975 *
US-PATENT-4,388,542 ..... c 44 N83-28573 *
US-PATENT-4,388,585 ..... c 33 N83-28319 *
US-PATENT-4,388,585 ..... c 33 N84-33660 *
US-PATENT-4,388,965 ..... c 34 N83-28356 *
US-PATENT-4,389,504 ..... c 27 N83-28240 *
US-PATENT-4,389,504 ..... c 27 N85-21349 *
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US-PATENT-4,391,423 ..... c 18 N83-29303 *
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US-PATENT-4,392,920 ..... c 27 N83-29388 *
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US-PATENT-4,395,503 ..... c 27 N83-34043 *
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US-PATENT-4,395,540 ..... c 27 N84-22746 *
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US-PATENT-4,395,557 ..... c 27 N83-31854 *
US-PATENT-4,395,557 ..... c 27 N84-22745 *
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US-PATENT-4,398,021 ..... c 27 N83-34041 *
US-PATENT-4,398,021 ..... c 27 N85-20124 *
US-PATENT-4,398,129 ..... c 33 N83-34189 *
US-PATENT-4,398,412 ..... c 35 N84-28018 *
US-PATENT-4,398,667 ..... c 71 N84-14873 *
US-PATENT-4,398,925 ..... c 71 N83-35781 *
US-PATENT-4,399,415 ..... c 36 N83-35350 *
US-PATENT-4,399,515 ..... c 35 N84-14491 *
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US-PATENT-4,400,642 ..... c 76 N83-34796 *
US-PATENT-4,400,657 ..... c 33 N83-34190 *
US-PATENT-4,401,505 ..... c 76 N83-35888 *
US-PATENT-4,401,934 ..... c 33 N83-35227 *
US-PATENT-4,401,953 ..... c 33 N83-34191 *
US-PATENT-4,402,221 ..... c 71 N83-36846 *
US-PATENT-4,402,356 ..... c 34 N83-35307 *
US-PATENT-4,402,447 ..... c 35 N83-35338 *
US-PATENT-4,402,992 ..... c 31 N83-35177 *
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US-PATENT-4,404,793 ..... c 07 N83-36029 *
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US-PATENT-4,406,989 ..... c 33 N83-36356 *
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US-PATENT-4,407,165 ..... c 37 N83-36482 *
US-PATENT-4,407,466 ..... c 01 N83-35992 *
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US-PATENT-4,416,266 ..... c 52 N84-28388 *
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US-PATENT-4,421,700 ..... c 24 N84-16262 *
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US-PATENT-4,450,268 ..... c 27 N84-27884 *
US-PATENT-4,450,447 ..... c 32 N84-27951 *
US-PATENT-4,451,017 ..... c 18 N84-27787 *
US-PATENT-4,451,496 ..... c 26 N84-27855 *
US-PATENT-4,452,088 ..... c 24 N84-27829 *
US-PATENT-4,452,412 ..... c 16 N84-27784 *
US-PATENT-4,453,163 ..... c 06 N84-27733 *
US-PATENT-4,454,611 ..... c 54 N84-28484 *
US-PATENT-4,454,649 ..... c 44 N84-28205 *
US-PATENT-4,454,753 ..... c 09 N84-27749 *
US-PATENT-4,455,418 ..... c 27 N84-27885 *
US-PATENT-4,455,418 ..... c 25 N85-28982 *
US-PATENT-4,455,532 ..... c 72 N84-28575 *
US-PATENT-4,455,680 ..... c 32 N84-27952 *
US-PATENT-4,456,208 ..... c 27 N84-27886 *
US-PATENT-4,456,708 ..... c 51 N84-28361 *
US-PATENT-4,458,418 ..... c 37 N84-28085 *
US-PATENT-4,458,554 ..... c 37 N84-28082 *
US-PATENT-4,459,083 ..... c 02 N84-28732 *
US-PATENT-4,459,470 ..... c 27 N84-33589 *
US-PATENT-4,459,528 ..... c 33 N84-27975 *
US-PATENT-4,459,562 ..... c 33 N84-27974 *
US-PATENT-4,462,871 ..... c 76 N84-35112 *
US-PATENT-4,463,357 ..... c 46 N85-21846 *
US-PATENT-4,463,465 ..... c 03 N84-33394 *
US-PATENT-4,463,606 ..... c 71 N85-22105 *
US-PATENT-4,464,710 ..... c 33 N84-33663 *
US-PATENT-4,466,242 ..... c 20 N85-21256 *
US-PATENT-4,466,667 ..... c 35 N84-33768 *
US-PATENT-4,469,552 ..... c 76 N84-35113 *
US-PATENT-4,469,942 ..... c 35 N84-33767 *
US-PATENT-4,469,998 ..... c 33 N84-33661 *
US-PATENT-4,470,293 ..... c 37 N84-33807 *
US-PATENT-4,470,403 ..... c 44 N84-34792 *
US-PATENT-4,471,357 ..... c 32 N84-34651 *
US-PATENT-4,472,473 ..... c 18 N84-33450 *
US-PATENT-4,472,716 ..... c 35 N84-33769 *

US-PATENT-4,472,728 ..... c 35 N84-33765 *
US-PATENT-4,473,259 ..... c 37 N85-20337 *
US-PATENT-4,473,674 ..... c 24 N84-34571 *
US-PATENT-4,473,792 ..... c 33 N84-33660 *
US-PATENT-4,474,062 ..... c 06 N84-34443 *
US-PATENT-4,474,180 ..... c 52 N84-34913 *
US-PATENT-4,474,471 ..... c 35 N84-34705 *
US-PATENT-4,474,975 ..... c 25 N85-21280 *
US-PATENT-4,475,063 ..... c 33 N85-21491 *
US-PATENT-4,475,385 ..... c 09 N84-34448 *
US-PATENT-4,475,527 ..... c 37 N85-21650 *
US-PATENT-4,475,921 ..... c 71 N85-22104 *
US-PATENT-4,478,879 ..... c 44 N85-20530 *
US-PATENT-4,479,053 ..... c 74 N85-22139 *
US-PATENT-4,479,386 ..... c 27 N85-20126 *
US-PATENT-4,479,560 ..... c 35 N85-20294 *
US-PATENT-4,481,570 ..... c 60 N85-21992 *
US-PATENT-4,482,778 ..... c 44 N85-21768 *
US-PATENT-4,482,779 ..... c 33 N85-21492 *
US-PATENT-4,483,512 ..... c 37 N85-20338 *
US-PATENT-4,483,639 ..... c 37 N85-21649 *
US-PATENT-4,483,817 ..... c 25 N85-21279 *
US-PATENT-4,485,151 ..... c 24 N85-21266 *
US-PATENT-4,485,151 ..... c 24 N85-35233 *
US-PATENT-4,485,670 ..... c 34 N85-21568 *
US-PATENT-4,485,671 ..... c 35 N85-20295 *
US-PATENT-4,485,992 ..... c 08 N85-19985 *
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US-PATENT-4,488,335 ..... c 27 N85-20125 *
US-PATENT-4,488,663 ..... c 35 N85-21595 *
US-PATENT-4,489,027 ..... c 27 N85-20124 *
US-PATENT-4,489,239 ..... c 36 N85-21631 *
US-PATENT-4,489,243 ..... c 44 N85-21769 *
US-PATENT-4,489,264 ..... c 33 N85-22877 *
US-PATENT-4,490,117 ..... c 09 N85-19990 *
US-PATENT-4,490,229 ..... c 31 N85-20153 *
US-PATENT-4,491,427 ..... c 37 N85-21651 *
US-PATENT-4,493,021 ..... c 32 N85-21428 *
US-PATENT-4,493,211 ..... c 09 N85-21176 *
US-PATENT-4,493,553 ..... c 36 N85-21639 *
US-PATENT-4,495,044 ..... c 24 N85-21267 *
US-PATENT-4,495,339 ..... c 25 N85-30039 *
US-PATENT-4,495,520 ..... c 32 N85-21427 *
US-PATENT-4,496,122 ..... c 05 N85-21147 *
US-PATENT-4,496,701 ..... c 27 N85-21347 *
US-PATENT-4,497,540 ..... c 74 N85-23396 *
US-PATENT-4,497,935 ..... c 27 N85-21349 *
US-PATENT-4,497,939 ..... c 27 N85-21351 *
US-PATENT-4,497,940 ..... c 27 N85-21352 *
US-PATENT-4,497,948 ..... c 27 N85-21350 *
US-PATENT-4,498,231 ..... c 35 N85-21598 *
US-PATENT-4,498,333 ..... c 35 N85-21597 *
US-PATENT-4,499,260 ..... c 27 N85-21348 *
US-PATENT-4,499,424 ..... c 35 N85-21596 *
US-PATENT-4,499,470 ..... c 43 N85-21723 *
US-PATENT-4,500,265 ..... c 31 N85-21404 *
US-PATENT-4,500,492 ..... c 37 N85-21652 *
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US-PATENT-4,505,998 ..... c 33 N85-29144 *
US-PATENT-4,506,183 ..... c 34 N85-29179 *
US-PATENT-4,507,926 ..... c 31 N85-29082 *
US-PATENT-4,508,296 ..... c 18 N85-29991 *
US-PATENT-4,509,048 ..... c 32 N85-34327 *
US-PATENT-4,509,130 ..... c 36 N85-29264 *
US-PATENT-4,509,132 ..... c 33 N85-34333 *
US-PATENT-4,509,548 ..... c 37 N85-34403 *
US-PATENT-4,510,277 ..... c 27 N85-34262 *
US-PATENT-4,510,296 ..... c 23 N85-28973 *
US-PATENT-4,510,476 ..... c 33 N85-29146 *
US-PATENT-4,511,362 ..... c 25 N85-35253 *
US-PATENT-4,511,838 ..... c 76 N85-30923 *
US-PATENT-4,512,332 ..... c 44 N85-30474 *
US-PATENT-4,512,661 ..... c 35 N85-30282 *
US-PATENT-4,512,678 ..... c 37 N85-30334 *
US-PATENT-4,512,699 ..... c 37 N85-29285 *
US-PATENT-4,512,846 ..... c 76 N85-29600 *
US-PATENT-4,513,317 ..... c 32 N85-29117 *
US-PATENT-4,513,423 ..... c 36 N85-30305 *
US-PATENT-4,513,750 ..... c 52 N85-30618 *
US-PATENT-4,513,810 ..... c 35 N85-29214 *
US-PATENT-4,514,137 ..... c 37 N85-29282 *
US-PATENT-4,514,143 ..... c 05 N85-29947 *
US-PATENT-4,514,176 ..... c 35 N85-29212 *
US-PATENT-4,514,557 ..... c 25 N85-28982 *
US-PATENT-4,515,207 ..... c 34 N85-29180 *
US-PATENT-4,515,751 ..... c 35 N85-29213 *
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US-PATENT-4,516,435 ..... c 37 N85-29286 *
US-PATENT-4,517,472 ..... c 33 N85-29147 *
US-PATENT-4,517,505 ..... c 37 N85-30333 *
US-PATENT-4,517,530 ..... c 33 N85-29143 *
US-PATENT-4,518,277 ..... c 37 N85-30336 *
US-PATENT-4,518,625 ..... c 24 N85-30027 *
US-PATENT-4,518,722 ..... c 27 N85-29044 *
US-PATENT-4,519,545 ..... c 37 N85-29283 *
US-PATENT-4,520,601 ..... c 37 N85-30335 *

US-PATENT-4,520,656 ..... c 71 N85-29693 *
US-PATENT-4,521,077 ..... c 74 N85-29750 *
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US-PATENT-4,521,686 ..... c 35 N85-30281 *
US-PATENT-4,521,702 ..... c 33 N85-29145 *
US-PATENT-4,521,854 ..... c 33 N85-29142 *
US-PATENT-4,522,469 ..... c 76 N85-33826 *
US-PATENT-4,522,661 ..... c 76 N85-30922 *
US-PATENT-4,522,755 ..... c 27 N86-19455 *
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US-PATENT-4,523,008 ..... c 27 N85-29043 *
US-PATENT-4,523,682 ..... c 71 N85-30765 *
US-PATENT-4,523,741 ..... c 37 N85-29284 *
US-PATENT-4,523,810 ..... c 74 N85-29749 *
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US-PATENT-4,526,925 ..... c 27 N86-20560 *
US-PATENT-4,526,925 ..... c 27 N87-22845 *
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US-PATENT-4,527,910 ..... c 37 N85-33490 *
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US-PATENT-4,528,417 ..... c 44 N85-34441 *
US-PATENT-4,528,639 ..... c 60 N85-33701 *
US-PATENT-4,529,358 ..... c 34 N85-33433 *
US-PATENT-4,531,143 ..... c 33 N86-19516 *
US-PATENT-4,532,797 ..... c 35 N85-34373 *
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US-PATENT-4,533,242 ..... c 74 N85-34629 *
US-PATENT-4,534,166 ..... c 07 N85-35195 *
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US-PATENT-4,535,035 ..... c 26 N85-35267 *
US-PATENT-4,535,636 ..... c 35 N85-34375 *
US-PATENT-4,536,114 ..... c 37 N85-34401 *
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US-PATENT-4,537,554 ..... c 85 N85-34722 *
US-PATENT-4,537,834 ..... c 27 N85-34281 *
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US-PATENT-4,538,446 ..... c 34 N86-12547 *
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US-PATENT-4,542,858 ..... c 33 N86-20689 *
US-PATENT-4,542,963 ..... c 74 N86-20125 *
US-PATENT-4,543,295 ..... c 27 N86-20561 *
US-PATENT-4,543,302 ..... c 44 N86-19721 *
US-PATENT-4,543,442 ..... c 76 N86-20150 *
US-PATENT-4,544,025 ..... c 35 N86-20750 *
US-PATENT-4,544,068 ..... c 35 N86-20751 *
US-PATENT-4,545,025 ..... c 60 N86-21154 *
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US-PATENT-4,545,586 ..... c 37 N86-20788 *
US-PATENT-4,545,723 ..... c 37 N86-19603 *
US-PATENT-4,546,248 ..... c 32 N86-20647 *
US-PATENT-4,547,121 ..... c 37 N86-20789 *
US-PATENT-4,547,666 ..... c 33 N86-20672 *
US-PATENT-4,548,063 ..... c 39 N86-20841 *
US-PATENT-4,549,435 ..... c 35 N86-20752 *
US-PATENT-4,550,129 ..... c 24 N86-19380 *
US-PATENT-4,550,177 ..... c 23 N86-19376 *
US-PATENT-4,550,177 ..... c 23 N86-24692 *
US-PATENT-4,550,292 ..... c 33 N86-20666 *
US-PATENT-4,550,561 ..... c 07 N86-20389 *
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US-PATENT-4,551,687 ..... c 33 N86-20670 *
US-PATENT-4,551,724 ..... c 43 N86-19711 *
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US-PATENT-4,552,784 ..... c 26 N86-32550 *
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US-PATENT-4,553,110 ..... c 33 N86-19515 *
US-PATENT-4,553,393 ..... c 37 N86-19604 *
US-PATENT-4,553,917 ..... c 26 N86-32551 *
US-PATENT-4,554,905 ..... c 18 N86-20469 *
US-PATENT-4,556,327 ..... c 35 N86-19580 *
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US-PATENT-4,557,097 ..... c 31 N86-19479 *
US-PATENT-4,557,149 ..... c 35 N86-19581 *
US-PATENT-4,557,444 ..... c 05 N86-19310 *
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US-PATENT-4,565,557 ..... c 31 N86-21718 *
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US-PATENT-4,582,289 ..... c 37 N87-21333 *
US-PATENT-4,582,590 ..... c 25 N86-25428 *
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US-PATENT-4,583,860 ..... c 74 N86-26190 *
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US-PATENT-4,596,007 ..... c 24 N86-28131 *
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US-PATENT-4,598,428 ..... c 54 N86-29507 * #
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US-PATENT-4,604,181 ..... c 27 N86-32569 *
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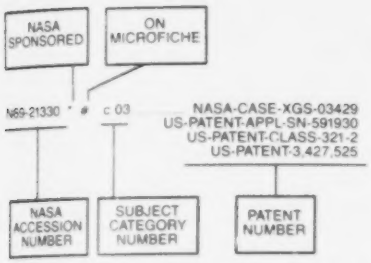

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N69-24329* # c 09 ..... NASA-CASE-XNP-04183
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N69-24331* # c 14 ..... NASA-CASE-XNP-03930
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US-PATENT-3,430,937

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US-PATENT-3,433,953

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US-PATENT-3,428,812

N69-27486* # c 14 ..... NASA-CASE-XAC-11225
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US-PATENT-CLASS-248-18
US-PATENT-3,430,902

N69-27487* # c 04 ..... NASA-CASE-XGS-05533
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US-PATENT-3,437,560

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US-PATENT-3,427,047

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US-PATENT-3,430,063

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US-PATENT-3,429,477

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US-PATENT-3,433,079

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US-PATENT-3,430,942

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US-PATENT-CLASS-64-28
US-PATENT-3,430,460

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US-PATENT-CLASS-219-347
US-PATENT-3,431,397

N69-31244* # c 06 ..... NASA-CASE-NPO-10714
US-PATENT-APPL-SN-817569

N69-31343* # c 16 ..... NASA-CASE-ERC-10187
US-PATENT-APPL-SN-825253

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US-PATENT-APPL-SN-827597

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US-PATENT-3,448,273

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US-PATENT-3,447,233

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US-PATENT-3,447,071

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US-PATENT-3,458,726

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US-PATENT-CLASS-313-231
US-PATENT-3,447,015

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US-PATENT-3,446,642

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US-PATENT-3,450,946

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US-PATENT-3,446,997

N69-39929* # c 09 ..... NASA-CASE-XNP-09776
US-PATENT-APPL-SN-617779
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US-PATENT-3,446,996

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US-PATENT-3,443,416

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US-PATENT-3,430,237

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N69-39976* # c 07 ..... NASA-CASE-XGS-02749
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US-PATENT-3,450,842

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US-PATENT-3,454,410

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US-PATENT-3,444,380

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US-PATENT-3,443,779

N69-39982* # c 14 ..... NASA-CASE-XGS-01725
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US-PATENT-3,446,980

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US-PATENT-CLASS-321-11
US-PATENT-3,434,033

N69-39986* # c 09 ..... NASA-CASE-XMS-05562-1
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US-PATENT-3,434,064

N69-39987* # c 09 ..... NASA-CASE-XMS-04215-1
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US-PATENT-3,446,992

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US-PATENT-CLASS-35-49
US-PATENT-3,429,058

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US-PATENT-APPL-SN-647596

N70-11148* # c 09 ..... NASA-CASE-ERC-10072
US-PATENT-APPL-SN-845872

N70-11251* # c 06 ..... NASA-CASE-NPO-10863
US-PATENT-APPL-SN-848325

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US-PATENT-3,490,236

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US-PATENT-3,041,587

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US-PATENT-3,010,372

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US-PATENT-3,039,077

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US-PATENT-3,059,220

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US-PATENT-3,011,760

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US-PATENT-2,940,259

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US-PATENT-CLASS-244-117
US-PATENT-3,026,120

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US-PATENT-3,041,924

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US-PATENT-3,173,246

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US-PATENT-3,094,909

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US-PATENT-3,171,060

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US-PATENT-3,060,391

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US-PATENT-APPL-SN-28175
US-PATENT-CLASS-244-83
US-PATENT-3,028,126

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US-PATENT-2,971,837

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US-PATENT-3,049,876

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US-PATENT-APPL-SN-840983
US-PATENT-CLASS-5-345
US-PATENT-3,038,175

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US-PATENT-APPL-SN-26375
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US-PATENT-3,028,122

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US-PATENT-CLASS-73-147
US-PATENT-3,005,339

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US-PATENT-APPL-SN-339821
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US-PATENT-3,170,773

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US-PATENT-APPL-SN-18780
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US-PATENT-CLASS-29-488
US-PATENT-3,008,229

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US-PATENT-APPL-SN-19971
US-PATENT-CLASS-219-34
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US-PATENT-3,012,407

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US-PATENT-2,984,735

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US-PATENT-APPL-SN-811509
US-PATENT-CLASS-244-12
US-PATENT-2,991,961

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US-PATENT-APPL-SN-847027
US-PATENT-CLASS-244-1
US-PATENT-3,001,739

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US-PATENT-APPL-SN-300113
US-PATENT-CLASS-244-1
US-PATENT-3,130,940

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US-PATENT-APPL-SN-58147
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US-PATENT-3,016,693

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US-PATENT-2,974,925

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US-PATENT-APPL-SN-31242
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US-PATENT-3,012,400

N70-33375* c 28 NASA-CASE-XLE-00207
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US-PATENT-CLASS-60-35.6
US-PATENT-3,173,251

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US-PATENT-CLASS-251-173
US-PATENT-2,945,667

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US-PATENT-APPL-SN-554899
US-PATENT-CLASS-266-19
US-PATENT-2,934,331

N70-33386* c 14 NASA-CASE-XLA-00113
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US-PATENT-CLASS-73-147
US-PATENT-3,001,395

N70-34134* c 03 NASA-CASE-XLE-00212
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US-PATENT-3,202,844

N70-34135* c 31 NASA-CASE-XLA-00686
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US-PATENT-CLASS-343-833
US-PATENT-3,202,996

N70-34156* c 14 NASA-CASE-XLE-00266
US-PATENT-APPL-SN-202024
US-PATENT-CLASS-73-15
US-PATENT-3,204,447

N70-34157* c 03 NASA-CASE-XMF-00517
US-PATENT-APPL-SN-216711
US-PATENT-CLASS-244-1
US-PATENT-3,204,869

N70-34158* c 14 NASA-CASE-XGS-00359
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US-PATENT-3,205,361

N70-34159* c 31 NASA-CASE-XMF-03856
US-PATENT-APPL-SN-416941
US-PATENT-CLASS-248-188.9
US-PATENT-3,208,707

N70-34160* c 02 NASA-CASE-XLA-01604
US-PATENT-APPL-SN-353637
US-PATENT-CLASS-244-50
US-PATENT-3,208,694

N70-34161* c 14 NASA-CASE-XLA-00203
US-PATENT-APPL-SN-227662
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US-PATENT-3,208,272

N70-34162* c 28 NASA-CASE-XMF-01544
US-PATENT-APPL-SN-394638
US-PATENT-CLASS-60-35.55
US-PATENT-3,208,215

N70-34175* c 28 NASA-CASE-XLE-01783
US-PATENT-APPL-SN-313132
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US-PATENT-3,210,927

N70-34176* c 31 NASA-CASE-XMF-00389
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US-PATENT-3,202,381

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US-PATENT-3,087,692

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US-PATENT-3,068,656

N70-34249* c 15 NASA-CASE-XMF-00375
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US-PATENT-3,188,844

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US-PATENT-3,189,299

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US-PATENT-3,169,725

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US-PATENT-3,185,023

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US-PATENT-APPL-SN-197548
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US-PATENT-3,189,794

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US-PATENT-CLASS-244-76
US-PATENT-3,070,330

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US-PATENT-3,201,560

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US-PATENT-3,189,726

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US-PATENT-3,189,864

N70-34646* # c 03 NASA-CASE-NPO-11138
US-PATENT-APPL-SN-9251

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US-PATENT-3,201,635

N70-34664* c 15 NASA-CASE-XMF-00515
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US-PATENT-3,199,931

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US-PATENT-APPL-SN-318443
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US-PATENT-3,200,706

N70-34675* # c 06 NASA-CASE-XNP-04162-1
US-PATENT-APPL-SN-872664

N70-34697* # c 14 NASA-CASE-NPO-11106
US-PATENT-APPL-SN-15020

N70-34699* # c 15 NASA-CASE-NPO-10682
US-PATENT-APPL-SN-15023

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US-PATENT-3,212,325

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US-PATENT-3,198,955

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US-PATENT-CLASS-235-154
US-PATENT-3,194,951

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US-PATENT-APPL-SN-54552
US-PATENT-CLASS-18-39
US-PATENT-3,193,883

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US-PATENT-3,196,690

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US-PATENT-CLASS-235-176
US-PATENT-3,196,261

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US-PATENT-CLASS-55-306
US-PATENT-3,196,598

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US-PATENT-3,194,060

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US-PATENT-3,199,340

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US-PATENT-3,108,171

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US-PATENT-3,102,948

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US-PATENT-3,196,557

N70-34816* c 14 NASA-CASE-XAC-00042
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US-PATENT-3,022,672

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US-PATENT-3,158,172

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US-PATENT-3,196,675

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US-PATENT-CLASS-340-147
US-PATENT-3,100,294
N70-39695* c 28 ..... NASA-CASE-XLE-00065
US-PATENT-APPL-SN-25175
US-PATENT-CLASS-253-66
US-PATENT-3,070,349
N70-39696* c 15 ..... NASA-CASE-XMF-00339
US-PATENT-APPL-SN-110591
US-PATENT-CLASS-308-9
US-PATENT-3,070,407
N70-39697* c 18 ..... NASA-CASE-XLE-00353
US-PATENT-APPL-SN-65548
US-PATENT-CLASS-252-58
US-PATENT-3,072,574
N70-39698* c 14 ..... NASA-CASE-XMF-00480
US-PATENT-APPL-SN-144804
US-PATENT-CLASS-248-346
US-PATENT-3,069,123
N70-39699* c 28 ..... NASA-CASE-XLE-00005
US-PATENT-APPL-SN-716095
US-PATENT-CLASS-60-35.6
US-PATENT-3,067,573
N70-39915* c 09 ..... NASA-CASE-XAC-00060
US-PATENT-APPL-SN-47121
US-PATENT-CLASS-200-19
US-PATENT-3,076,065
N70-39922* c 05 ..... NASA-CASE-XMS-01115
US-PATENT-APPL-SN-277404
US-PATENT-CLASS-128-29
US-PATENT-3,229,689
N70-39924* c 15 ..... NASA-CASE-XMF-00640
US-PATENT-APPL-SN-341467
US-PATENT-CLASS-228-50
US-PATENT-3,229,884
N70-39925* c 28 ..... NASA-CASE-XLE-00660
US-PATENT-APPL-SN-231604
US-PATENT-CLASS-313-11.5
US-PATENT-3,229,139
N70-39930* c 03 ..... NASA-CASE-XLA-00791
US-PATENT-APPL-SN-347960
US-PATENT-CLASS-102-49
US-PATENT-3,229,636
N70-39931* c 28 ..... NASA-CASE-XNP-01104
US-PATENT-APPL-SN-290867
US-PATENT-CLASS-60-39.48
US-PATENT-3,229,463
N70-40003* c 14 ..... NASA-CASE-XGS-01036
US-PATENT-APPL-SN-227692
US-PATENT-CLASS-88-14
US-PATENT-3,229,568
N70-40015* c 26 ..... NASA-CASE-XLA-02057
US-PATENT-APPL-SN-320595
US-PATENT-CLASS-23-277
US-PATENT-3,230,053
N70-40016* c 30 ..... NASA-CASE-XGS-00619
US-PATENT-APPL-SN-264726
US-PATENT-CLASS-244-1
US-PATENT-3,229,930
N70-40062* c 15 ..... NASA-CASE-XMS-01624
US-PATENT-APPL-SN-422867
US-PATENT-CLASS-55-406
US-PATENT-3,224,173
N70-40063* c 07 ..... NASA-CASE-XMS-00893
US-PATENT-APPL-SN-251449
US-PATENT-CLASS-343-18
US-PATENT-3,224,001
N70-40123* c 09 ..... NASA-CASE-XGS-01881
US-PATENT-APPL-SN-155584
US-PATENT-CLASS-324-43
US-PATENT-3,218,547
N70-40124* c 12 ..... NASA-CASE-XLE-01512
US-PATENT-APPL-SN-315096
US-PATENT-CLASS-149-2
US-PATENT-3,215,572
N70-40125* c 08 ..... NASA-CASE-XAC-00404
US-PATENT-APPL-SN-209801
US-PATENT-CLASS-340-347
US-PATENT-3,216,007
N70-40156* c 15 ..... NASA-CASE-XLA-01019
US-PATENT-APPL-SN-282817
US-PATENT-CLASS-248-358
US-PATENT-3,223,374
N70-40157* c 14 ..... NASA-CASE-XLA-00487
US-PATENT-APPL-SN-236748
US-PATENT-CLASS-73-178
US-PATENT-3,221,549
N70-40180* c 15 ..... NASA-CASE-XAC-00472
US-PATENT-APPL-SN-236749
US-PATENT-CLASS-73-142
US-PATENT-3,224,263
N70-40201* c 14 ..... NASA-CASE-XLE-00720
US-PATENT-APPL-SN-302749
US-PATENT-CLASS-73-134
US-PATENT-3,221,547
N70-40202* c 07 ..... NASA-CASE-XMF-00437
US-PATENT-APPL-SN-120795
US-PATENT-CLASS-343-705
US-PATENT-3,077,599
N70-40203* c 14 ..... NASA-CASE-XLE-00702
US-PATENT-APPL-SN-258931
US-PATENT-CLASS-73-116
US-PATENT-3,201,980
N70-40204* c 15 ..... NASA-CASE-XMF-00722
US-PATENT-APPL-SN-347626
US-PATENT-CLASS-228-50
US-PATENT-3,219,250
N70-40233* c 14 ..... NASA-CASE-XMS-01546
US-PATENT-APPL-SN-386467
US-PATENT-CLASS-222-45
US-PATENT-3,228,558
N70-40234* c 09 ..... NASA-CASE-XLE-01716
US-PATENT-APPL-SN-349778
US-PATENT-CLASS-126-270
US-PATENT-3,229,682
N70-40236* c 14 ..... NASA-CASE-XMF-00908
US-PATENT-APPL-SN-241065
US-PATENT-CLASS-250-201
US-PATENT-3,229,099
N70-40239* c 14 ..... NASA-CASE-XLA-00183
US-PATENT-APPL-SN-199202
US-PATENT-CLASS-250-203
US-PATENT-3,229,102
N70-40240* c 14 ..... NASA-CASE-XHQ-04106
US-PATENT-APPL-SN-91180
US-PATENT-CLASS-250-105
US-PATENT-3,143,651
N70-40272* c 09 ..... NASA-CASE-XMF-00701
US-PATENT-APPL-SN-261917
US-PATENT-CLASS-307-88.5

N70-40273* c 14 US-PATENT-3,218,479
NASA-CASE-XNP-00637
US-PATENT-APPL-SN-280776
US-PATENT-CLASS-95-58

N70-40309* c 30 US-PATENT-3,217,624
NASA-CASE-XLA-00210
US-PATENT-APPL-SN-82658
US-PATENT-CLASS-343-16

N70-40353* c 30 US-PATENT-3,220,004
NASA-CASE-XMF-03198
US-PATENT-APPL-SN-370134
US-PATENT-CLASS-89-1.7

N70-40354* c 15 US-PATENT-3,224,336
NASA-CASE-XMF-01045
US-PATENT-APPL-SN-355130
US-PATENT-CLASS-186-1

N70-40367* ε 26 US-PATENT-3,228,492
NASA-CASE-XLE-00177
US-PATENT-APPL-SN-10612
US-PATENT-CLASS-60-35.3

N70-40400* c 14 US-PATENT-3,045,424
NASA-CASE-XAC-00648
US-PATENT-APPL-SN-216939
US-PATENT-CLASS-73-147

N70-41275* c 28 US-PATENT-3,218,850
NASA-CASE-XNP-01390
US-PATENT-APPL-SN-424157
US-PATENT-CLASS-60-259

N70-41297* c 05 US-PATENT-3,300,981
NASA-CASE-XMS-01492
US-PATENT-APPL-SN-398131
US-PATENT-CLASS-55-35

N70-41310* c 15 US-PATENT-3,300,949
NASA-CASE-XNP-01567
US-PATENT-APPL-SN-448696
US-PATENT-CLASS-248-178

N70-41311* ε 25 US-PATENT-3,295,808
NASA-CASE-XNP-00876
US-PATENT-APPL-SN-377784
US-PATENT-CLASS-60-251

N70-41329* ε 05 US-PATENT-3,298,182
NASA-CASE-XMS-01615
US-PATENT-APPL-SN-329595
US-PATENT-CLASS-128-2.05

N70-41330* c 14 US-PATENT-3,298,362
NASA-CASE-XLE-00666
US-PATENT-APPL-SN-334672
US-PATENT-CLASS-73-32

N70-41331* c 07 US-PATENT-3,298,221
NASA-CASE-XLA-01400
US-PATENT-APPL-SN-363653
US-PATENT-CLASS-325-65

N70-41332* c 14 US-PATENT-3,296,531
NASA-CASE-XLA-00495
US-PATENT-APPL-SN-269215
US-PATENT-CLASS-324-70

N70-41366* c 14 US-PATENT-3,296,526
NASA-CASE-XLA-01353
US-PATENT-APPL-SN-403960
US-PATENT-CLASS-73-147

N70-41367* c 32 US-PATENT-3,301,046
NASA-CASE-XGS-00938
US-PATENT-APPL-SN-392970
US-PATENT-CLASS-214-1

N70-41370* c 32 US-PATENT-3,295,699
NASA-CASE-XNP-01962
US-PATENT-APPL-SN-369640
US-PATENT-CLASS-92-94

N70-41371* c 15 US-PATENT-3,298,285
NASA-CASE-XMF-01452
US-PATENT-APPL-SN-356692
US-PATENT-CLASS-29-271

N70-41372* c 07 US-PATENT-3,300,847
NASA-CASE-XLA-01127
US-PATENT-APPL-SN-363654
US-PATENT-CLASS-325-65

N70-41373* c 31 US-PATENT-3,300,731
NASA-CASE-XMS-01906
US-PATENT-APPL-SN-339040
US-PATENT-CLASS-244-1

N70-41447* ε 28 US-PATENT-3,300,162
NASA-CASE-XNP-00732
US-PATENT-APPL-SN-261918
US-PATENT-CLASS-210-314

N70-41576* ε 28 US-PATENT-3,295,664
NASA-CASE-XLE-00519
US-PATENT-APPL-SN-249542
US-PATENT-CLASS-313-63

N70-41578* c 16 US-PATENT-3,287,582
NASA-CASE-XGS-01504
US-PATENT-APPL-SN-340113
US-PATENT-CLASS-331-94

N70-41579* ε 33 US-PATENT-3,287,660
NASA-CASE-XLE-00620
US-PATENT-APPL-SN-304698
US-PATENT-CLASS-138-119

N70-41580* c 03 US-PATENT-3,295,556
NASA-CASE-XLA-04622
US-PATENT-APPL-SN-277833
US-PATENT-CLASS-126-270

N70-41581* c 05 US-PATENT-3,295,512
NASA-CASE-XAC-01404
US-PATENT-APPL-SN-363348
US-PATENT-CLASS-74-471

N70-41582* c 26 US-PATENT-3,295,386
NASA-CASE-XMF-01813
US-PATENT-APPL-SN-375674
US-PATENT-CLASS-181-52

N70-41583* c 18 US-PATENT-3,270,835
NASA-CASE-XMF-01030
US-PATENT-APPL-SN-317389
US-PATENT-CLASS-181-115

N70-41588* c 31 US-PATENT-3,296,060
NASA-CASE-XMF-01973
US-PATENT-APPL-SN-375682
US-PATENT-CLASS-244-1

N70-41589* c 02 US-PATENT-3,295,790
NASA-CASE-XMF-01174
US-PATENT-APPL-SN-410331
US-PATENT-CLASS-244-100

N70-41628* c 25 US-PATENT-3,295,798
NASA-CASE-XAC-00319
US-PATENT-APPL-SN-77251
US-PATENT-CLASS-315-111

N70-41629* c 15 US-PATENT-3,229,155
NASA-CASE-XGS-02441
US-PATENT-APPL-SN-411944
US-PATENT-CLASS-285-331

N70-41630* c 02 US-PATENT-3,301,578
NASA-CASE-XMS-00907
US-PATENT-APPL-SN-426890
US-PATENT-CLASS-244-138

N70-41631* c 31 US-PATENT-3,301,511
NASA-CASE-XMS-04142
US-PATENT-APPL-SN-422865
US-PATENT-CLASS-244-1

N70-41646* c 15 US-PATENT-3,301,507
NASA-CASE-XLE-01449
US-PATENT-APPL-SN-330209
US-PATENT-CLASS-137-197

N70-41647* c 14 US-PATENT-3,295,545
NASA-CASE-XGS-00769
US-PATENT-APPL-SN-319893
US-PATENT-CLASS-242-55.19

N70-41655* ε 09 US-PATENT-3,295,782
NASA-CASE-XMF-00906
US-PATENT-APPL-SN-264731
US-PATENT-CLASS-324-113

N70-41675* ε 09 US-PATENT-3,287,640
NASA-CASE-XMS-01315
US-PATENT-APPL-SN-347101
US-PATENT-CLASS-307-88.5

N70-41676* c 14 US-PATENT-3,302,040
NASA-CASE-XGS-01231
US-PATENT-APPL-SN-346356
US-PATENT-CLASS-250-71

N70-41677* c 11 US-PATENT-3,302,023
NASA-CASE-XMF-01772
US-PATENT-APPL-SN-370135
US-PATENT-CLASS-73-116

N70-41678* c 07 US-PATENT-3,295,366
NASA-CASE-XGS-02606
US-PATENT-APPL-SN-456578
US-PATENT-CLASS-343-18

N70-41679* c 15 US-PATENT-3,299,205
NASA-CASE-XLA-01441
US-PATENT-APPL-SN-516151
US-PATENT-CLASS-102-49

N70-41680* c 07 US-PATENT-3,302,589
NASA-CASE-XNP-02723
US-PATENT-APPL-SN-371857
US-PATENT-CLASS-343-14

N70-41681* c 14 US-PATENT-3,287,725
NASA-CASE-XAC-02877
US-PATENT-APPL-SN-449902
US-PATENT-CLASS-73-30

N70-41682* c 14 US-PATENT-3,295,360
NASA-CASE-XMS-05936
US-PATENT-APPL-SN-557868
US-PATENT-CLASS-73-517

N70-41717* ε 09 US-PATENT-3,295,377
NASA-CASE-XMS-02087
US-PATENT-APPL-SN-439489
US-PATENT-CLASS-165-1

N70-41807* c 14 US-PATENT-3,301,315
NASA-CASE-XNP-01472
US-PATENT-APPL-SN-321656
US-PATENT-CLASS-178-7.2

N70-41808* c 15 US-PATENT-3,287,496
NASA-CASE-XMS-02532
US-PATENT-APPL-SN-398132
US-PATENT-CLASS-285-27

N70-41811* c 15 US-PATENT-3,287,091
NASA-CASE-XNP-01152
US-PATENT-APPL-SN-389307
US-PATENT-CLASS-137-539

N70-41812* c 14 US-PATENT-3,302,662
NASA-CASE-XMS-03792
US-PATENT-APPL-SN-516159
US-PATENT-CLASS-200-61.45

N70-41818* c 28 US-PATENT-3,303,304
NASA-CASE-XLE-00150
US-PATENT-APPL-SN-843032
US-PATENT-CLASS-29-157.3

N70-41819* c 05 US-PATENT-3,035,333
NASA-CASE-XAC-00405
US-PATENT-APPL-SN-156816
US-PATENT-CLASS-128-1

N70-41829* c 15 US-PATENT-3,302,833
NASA-CASE-XMF-01371
US-PATENT-APPL-SN-353834
US-PATENT-CLASS-287-119

N70-41855* c 31 US-PATENT-3,302,960
NASA-CASE-XNP-02982
US-PATENT-APPL-SN-386995
US-PATENT-CLASS-244-1

N70-41856* c 21 US-PATENT-3,304,028
NASA-CASE-XNP-01307
US-PATENT-APPL-SN-390250
US-PATENT-CLASS-244-1

N70-41863* c 02 US-PATENT-3,286,953
NASA-CASE-XLA-01220
US-PATENT-APPL-SN-379417
US-PATENT-CLASS-244-16

N70-41864* ε 03 US-PATENT-3,286,957
NASA-CASE-XGS-01419
US-PATENT-APPL-SN-323182
US-PATENT-CLASS-136-175

N70-41871* c 31 US-PATENT-3,287,174
NASA-CASE-XMS-04380
US-PATENT-APPL-SN-502729
US-PATENT-CLASS-62-45

N70-41887* c 27 US-PATENT-3,304,729
NASA-CASE-XNP-01749
US-PATENT-APPL-SN-440033
US-PATENT-CLASS-149-109

N70-41922* c 28 US-PATENT-3,305,415
NASA-CASE-XNP-02839
US-PATENT-APPL-SN-477333
US-PATENT-CLASS-60-202

N70-41929* c 09 US-PATENT-3,304,718
NASA-CASE-XNP-01951
US-PATENT-APPL-SN-413862
US-PATENT-CLASS-335-300

N70-41930* c 21 US-PATENT-3,305,810
NASA-CASE-XNP-01501
US-PATENT-APPL-SN-432027
US-PATENT-CLASS-343-12

N70-41946* c 14 US-PATENT-3,305,861
NASA-CASE-XLE-00011
US-PATENT-APPL-SN-735911
US-PATENT-CLASS-86-14

N70-41948* c 31 US-PATENT-2,960,002
NASA-CASE-XMF-01099
US-PATENT-APPL-SN-426662
US-PATENT-CLASS-60-257

N70-41954* c 03 US-PATENT-3,304,724
NASA-CASE-XAC-03392
US-PATENT-APPL-SN-430776
US-PATENT-CLASS-74-519

N70-41955* c 14 US-PATENT-3,304,799
NASA-CASE-XNP-02029
US-PATENT-APPL-SN-221276
US-PATENT-CLASS-89-14

N70-41957* c 14 US-PATENT-3,323,408
NASA-CASE-XAC-01101
US-PATENT-APPL-SN-355129
US-PATENT-CLASS-73-141

N70-41960* c 15 US-PATENT-3,304,773
NASA-CASE-XNP-05082
US-PATENT-APPL-SN-521753
US-PATENT-CLASS-174-88.5

N70-41961* ε 28 US-PATENT-3,321,570
NASA-CASE-XNP-00911
US-PATENT-APPL-SN-280777
US-PATENT-CLASS-178-67

N70-41964* c 10 US-PATENT-3,305,636
NASA-CASE-XGS-01980
US-PATENT-APPL-SN-169223
US-PATENT-CLASS-333-79

N70-41967* ε 26 US-PATENT-3,305,801
NASA-CASE-XLA-02651
US-PATENT-APPL-SN-449901
US-PATENT-CLASS-102-49

N70-41981* c 10 US-PATENT-3,304,865
NASA-CASE-XNP-03128
US-PATENT-APPL-SN-397865
US-PATENT-CLASS-250-83.6

N70-41992* c 28 ..... US-PATENT-3,321,628
NASA-CASE-XLE-00685
US-PATENT-APPL-SN-407595
US-PATENT-CLASS-60-260

N70-41993* c 15 ..... US-PATENT-3,321,922
NASA-CASE-XLE-01300
US-PATENT-APPL-SN-380960
US-PATENT-CLASS-73-100

N70-41994* c 14 ..... US-PATENT-3,323,356
NASA-CASE-XMF-02822
US-PATENT-APPL-SN-403959
US-PATENT-CLASS-73-194

N70-42000* c 05 ..... US-PATENT-3,323,362
NASA-CASE-XMS-03371
US-PATENT-APPL-SN-418931
US-PATENT-CLASS-73-432

N70-42003* c 32 ..... US-PATENT-3,323,370
NASA-CASE-XLA-02131
US-PATENT-APPL-SN-377777
US-PATENT-CLASS-73-90

N70-42015* c 31 ..... US-PATENT-3,304,766
NASA-CASE-XLA-01967
US-PATENT-APPL-SN-457875
US-PATENT-CLASS-244-135

N70-42016* c 02 ..... US-PATENT-3,321,159
NASA-CASE-XLA-01290
US-PATENT-APPL-SN-393451
US-PATENT-CLASS-244-42

N70-42017* c 15 ..... US-PATENT-3,321,157
NASA-CASE-XMS-04072
US-PATENT-APPL-SN-485960
US-PATENT-CLASS-30-228

N70-42032* c 10 ..... US-PATENT-3,320,669
NASA-CASE-XNP-02654
US-PATENT-APPL-SN-435387
US-PATENT-CLASS-307-88.5

N70-42033* c 15 ..... US-PATENT-3,321,645
NASA-CASE-XNP-02092
US-PATENT-APPL-SN-371856
US-PATENT-CLASS-156-345

N70-42034* c 15 ..... US-PATENT-3,323,967
NASA-CASE-XNP-01412
US-PATENT-APPL-SN-426702
US-PATENT-CLASS-175-3[illegible]

N70-42073* c 03 ..... US-PATENT-3,321,034
NASA-CASE-XFR-04104
US-PATENT-APPL-SN-476759
US-PATENT-CLASS-74-471

N70-42074* c 14 ..... US-PATENT-3,323,386
NASA-CASE-XLE-02998
US-PATENT-APPL-SN-516794
US-PATENT-CLASS-116-117

N70-42075* c 31 ..... US-PATENT-3,323,484
NASA-CASE-XMS-02677
US-PATENT-APPL-SN-472066
US-PATENT-CLASS-244-1

N71-10500* c 14 ..... US-PATENT-3,321,154
NASA-CASE-XLE-01609
US-PATENT-APPL-SN-438797
US-PATENT-CLASS-73-290

N71-10560* c 24 ..... US-PATENT-3,326,043
NASA-CASE-XLE-00808
US-PATENT-APPL-SN-307269
US-PATENT-CLASS-148-188

N71-10574* c 28 ..... US-PATENT-3,310,443
NASA-CASE-XLE-01902
US-PATENT-APPL-SN-485656
US-PATENT-CLASS-60-202

N71-10577* c 15 ..... US-PATENT-3,324,659
NASA-CASE-XLE-04677
US-PATENT-APPL-SN-447926
US-PATENT-CLASS-220-67

N71-10578* c 10 ..... US-PATENT-3,326,407
NASA-CASE-XMS-01554
US-PATENT-APPL-SN-414482
US-PATENT-CLASS-323-8

N71-10582* c 31 ..... US-PATENT-3,325,723
NASA-CASE-XLA-02132
US-PATENT-APPL-SN-453227
US-PATENT-CLASS-102-49

N71-10604* c 11 ..... US-PATENT-3,266,650
NASA-CASE-XMF-03248
US-PATENT-APPL-SN-377780
US-PATENT-CLASS-73-116

N71-10607* c 26 ..... US-PATENT-3,310,980
NASA-CASE-XLE-02792
US-PATENT-APPL-SN-352400
US-PATENT-CLASS-148-1.5

N71-10608* c 03 ..... US-PATENT-3,311,510
NASA-CASE-XGS-03505
US-PATENT-APPL-SN-498167
US-PATENT-CLASS-136-26

N71-10609* c 07 ..... US-PATENT-3,311,502
NASA-CASE-XGS-01223
US-PATENT-APPL-SN-319992
US-PATENT-CLASS-242-55.19

N71-10616* c 14 ..... US-PATENT-3,311,315
NASA-CASE-XMF-02433
US-PATENT-APPL-SN-405630
US-PATENT-CLASS-73-70.2

N71-10617* c 15 ..... US-PATENT-3,310,978
NASA-CASE-XMF-01867
US-PATENT-APPL-SN-422868
US-PATENT-CLASS-308-5

N71-10618* E 09 ..... US-PATENT-3,325,229
NASA-CASE-XNP-03332
US-PATENT-APPL-SN-368123
US-PATENT-CLASS-313-63

N71-10658* c 15 ..... US-PATENT-3,311,772
NASA-CASE-XMS-03252
US-PATENT-APPL-SN-425362
US-PATENT-CLASS-60-54.5

N71-10659* c 09 ..... US-PATENT-3,318,093
NASA-CASE-XNP-01383
US-PATENT-APPL-SN-369336
US-PATENT-CLASS-324-77

N71-10672* c 15 ..... US-PATENT-3,317,832
NASA-CASE-XLA-01091
US-PATENT-APPL-SN-351259
US-PATENT-CLASS-264-102

N71-10673* c 09 ..... US-PATENT-3,317,641
NASA-CASE-XGS-01473
US-PATENT-APPL-SN-364867
US-PATENT-CLASS-307-88.5

N71-10676* c 07 ..... US-PATENT-3,317,751
NASA-CASE-XNP-03134
US-PATENT-APPL-SN-422095
US-PATENT-CLASS-333-21

N71-10677* E 09 ..... US-PATENT-3,324,423
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US-PATENT-CLASS-318-138

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NASA-CASE-XGS-01159
US-PATENT-APPL-SN-332313
US-PATENT-CLASS-250-203

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NASA-CASE-XNP-01464
US-PATENT-APPL-SN-430778
US-PATENT-CLASS-136-182

N71-10746* c 11 ..... US-PATENT-3,317,352
NASA-CASE-XMS-02977
US-PATENT-APPL-SN-416938
US-PATENT-CLASS-35-12

N71-10747* c 31 ..... US-PATENT-3,281,963
NASA-CASE-XMF-00442
US-PATENT-APPL-SN-202030
US-PATENT-CLASS-343-705

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NASA-CASE-XFR-04147
US-PATENT-APPL-SN-476761
US-PATENT-CLASS-35-12

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NASA-CASE-XNP-03914
US-PATENT-APPL-SN-468647
US-PATENT-CLASS-250-203

N71-10772* c 18 ..... US-PATENT-3,317,731
NASA-CASE-XLE-01765
US-PATENT-APPL-SN-316477
US-PATENT-CLASS-117-65.2

N71-10773* c 14 ..... US-PATENT-3,317,341
NASA-CASE-XLA-02605
US-PATENT-APPL-SN-459138
US-PATENT-CLASS-177-210

N71-10774* c 14 ..... US-PATENT-3,316,991
NASA-CASE-XLA-01131
US-PATENT-APPL-SN-322545
US-PATENT-CLASS-73-23

N71-10775* c 07 ..... US-PATENT-3,312,101
NASA-CASE-XLA-00901
US-PATENT-APPL-SN-269212
US-PATENT-CLASS-325-305

N71-10776* c 11 ..... US-PATENT-3,311,832
NASA-CASE-XLA-03127
US-PATENT-APPL-SN-447927
US-PATENT-CLASS-35-12

N71-10777* c 11 ..... US-PATENT-3,281,964
NASA-CASE-XLE-01533
US-PATENT-APPL-SN-334678
US-PATENT-CLASS-55-400

N71-10778* c 15 ..... US-PATENT-3,282,035
NASA-CASE-XNP-00710
US-PATENT-APPL-SN-271821
US-PATENT-CLASS-251-61

N71-10779* c 14 ..... US-PATENT-3,317,180
NASA-CASE-XMF-02307
US-PATENT-APPL-SN-422869
US-PATENT-CLASS-73-40.5

N71-10780* c 28 ..... US-PATENT-3,316,752
NASA-CASE-XLA-01043
US-PATENT-APPL-SN-379768
US-PATENT-CLASS-60-225

N71-10781* c 14 ..... US-PATENT-3,316,716
NASA-CASE-XLE-01461
US-PATENT-APPL-SN-319905
US-PATENT-CLASS-73-99

N71-10782* c 15 ..... US-PATENT-3,282,091
NASA-CASE-XKS-01965
US-PATENT-APPL-SN-357337
US-PATENT-CLASS-285-24

N71-10797* c 14 ..... US-PATENT-3,319,979
NASA-CASE-XLE-01246
US-PATENT-APPL-SN-249537
US-PATENT-CLASS-324-61

N71-10798* c 09 ..... US-PATENT-3,324,388
NASA-CASE-XMS-00945
US-PATENT-APPL-SN-385530
US-PATENT-CLASS-330-22

N71-10799* c 15 ..... US-PATENT-3,319,175
NASA-CASE-XLA-01807
US-PATENT-APPL-SN-442558
US-PATENT-CLASS-287-189.36

N71-10809* c 15 ..... US-PATENT-3,318,622
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US-PATENT-APPL-SN-364811
US-PATENT-CLASS-140-124

N71-11037* c 02 ..... US-PATENT-3,318,343
NASA-CASE-XLA-06824-2
US-PATENT-APPL-SN-775966
US-PATENT-CLASS-244-31

N71-11038* c 02 ..... US-PATENT-3,508,724
NASA-CASE-XLA-06958
US-PATENT-APPL-SN-551815
US-PATENT-CLASS-244-44

N71-11039* c 02 ..... US-PATENT-3,310,261
NASA-CASE-MSC-12111-1
US-PATENT-APPL-SN-775877
US-PATENT-CLASS-244-23

N71-11041*# c 02 ..... US-PATENT-3,490,721
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US-PATENT-APPL-SN-444087
US-PATENT-CLASS-244-46

N71-11043* c 02 ..... US-PATENT-3,270,969
NASA-CASE-XLA-06801-1
US-PATENT-APPL-SN-710533
US-PATENT-CLASS-244-43

N71-11049* c 03 ..... US-PATENT-3,493,197
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US-PATENT-APPL-SN-701654
US-PATENT-CLASS-136-89

N71-11050* c 03 ..... US-PATENT-3,532,551
NASA-CASE-XNP-06506
US-PATENT-APPL-SN-577778
US-PATENT-CLASS-136-89

N71-11051* c 03 ..... US-PATENT-3,446,676
NASA-CASE-XNP-03378
US-PATENT-APPL-SN-360878
US-PATENT-CLASS-136-170

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NASA-CASE-XLE-04526
US-PATENT-APPL-SN-640457
US-PATENT-CLASS-136-86

N71-11053* c 03 ..... US-PATENT-3,507,704
NASA-CASE-XGS-00866
US-PATENT-APPL-SN-319894
US-PATENT-CLASS-136-132

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US-PATENT-CLASS-310-4

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NASA-CASE-XNP-05821
US-PATENT-APPL-SN-545223
US-PATENT-CLASS-136-89

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US-PATENT-CLASS-290-40

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US-PATENT-APPL-SN-344793
US-PATENT-CLASS-244-1

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NASA-CASE-XFR-10856
US-PATENT-APPL-SN-626376
US-PATENT-CLASS-244-1

N71-11190* c 05 ..... US-PATENT-3,534,727
NASA-CASE-XMS-04935
US-PATENT-APPL-SN-516487
US-PATENT-CLASS-128-142.5

N71-11193* c 05 ..... US-PATENT-3,502,074
NASA-CASE-ARC-10043-1
US-PATENT-APPL-SN-676012
US-PATENT-CLASS-128-2.1

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N71-11202* c 05 ..... NASA-CASE-XFR-06403
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N71-11203* c 05 ..... NASA-CASE-XMS-09632-1
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N71-11235* c 06 ..... NASA-CASE-XLA-03104
US-PATENT-APPL-SN-510155
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US-PATENT-3,516,232
N71-11236* c 06 ..... NASA-CASE-XMF-08651
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US-PATENT-3,526,611
N71-11237* c 06 ..... NASA-CASE-XMF-10753
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US-PATENT-3,444,127
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N71-11239* c 06 ..... NASA-CASE-XMF-08655
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N71-11240* c 06 ..... NASA-CASE-MFS-13994-1
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N71-11243* c 06 ..... NASA-CASE-XMF-08652
US-PATENT-APPL-SN-593606
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US-PATENT-3,493,522
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US-PATENT-3,508,152
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US-PATENT-3,508,156
N71-11281* c 07 ..... NASA-CASE-XNP-10830
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N71-11284* c 07 ..... NASA-CASE-XLA-01552
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US-PATENT-APPL-SN-743429
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US-PATENT-3,243,791
N71-11300* c 07 ..... NASA-CASE-XMS-07166
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N71-11766* c 21 ..... NASA-CASE-LAR-10403
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US-PATENT-APPL-SN-357336
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US-PATENT-3,249,013
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US-PATENT-APPL-SN-358127
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US-PATENT-APPL-SN-723476
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US-PATENT-3,516,711
N71-12342* c 05 ..... NASA-CASE-XAC-05706
US-PATENT-APPL-SN-592604
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N71-12343* c 05 ..... NASA-CASE-MSC-11253
US-PATENT-APPL-SN-695973
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N71-12344* c 05 ..... NASA-CASE-XMS-09636
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US-PATENT-APPL-SN-674357
US-PATENT-CLASS-224-25
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N71-12389* c 07 ..... NASA-CASE-XLA-01090
US-PATENT-APPL-SN-741824
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N71-12390* c 07 ..... NASA-CASE-XER-09213
US-PATENT-APPL-SN-668302
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US-PATENT-3,251,053
N71-12502* c 08 ..... NASA-CASE-NPO-10112
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US-PATENT-CLASS-244-76
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N71-13461* c 05 ..... NASA-CASE-LAR-10180-1
US-PATENT-APPL-SN-708386
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N71-13518* c 09 ..... NASA-CASE-MSC-12178-1
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N71-13521* c 09 ..... NASA-CASE-XKS-08349
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US-PATENT-CLASS-219-121
N71-20407* c 03 US-PATENT-3,472,098
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US-PATENT-CLASS-136-182
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US-PATENT-APPL-SN-561223
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N71-20428* c 14 US-PATENT-3,455,121
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US-PATENT-CLASS-73-422
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US-PATENT-CLASS-73-29

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US-PATENT-CLASS-75-142
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N71-22890* c 33 US-PATENT-3,373,430 NASA-CASE-XLA-07728 US-PATENT-APPL-SN-538908 US-PATENT-CLASS-165-96
N71-22894* c 18 US-PATENT-3,374,830 NASA-CASE-XLE-03925 US-PATENT-APPL-SN-514407 US-PATENT-CLASS-75-204
N71-22895* c 16 US-PATENT-3,337,337 NASA-CASE-XMS-04269 US-PATENT-APPL-SN-516793 US-PATENT-CLASS-250-199
N71-22896* c 05 US-PATENT-3,341,708 NASA-CASE-XMS-02399 US-PATENT-APPL-SN-492344 US-PATENT-CLASS-128-2.06
N71-22897* c 08 US-PATENT-3,384,075 NASA-CASE-XNP-01753 US-PATENT-APPL-SN-423412 US-PATENT-CLASS-235-92
N71-22961* c 10 US-PATENT-3,374,339 NASA-CASE-XMS-02159 US-PATENT-APPL-SN-534564 US-PATENT-CLASS-323-56
N71-22962* c 10 US-PATENT-3,365,657 NASA-CASE-XGS-0544[illegible] US-PATENT-APPL-SN-505321 US-PATENT-CLASS-328-233
N71-22964* c 14 US-PATENT-3,366,886 NASA-CASE-XLE-02024 US-PATENT-APPL-SN-422099 US-PATENT-CLASS-73-15
N71-22965* c 14 US-PATENT-3,365,930 NASA-CASE-XGS-02319 US-PATENT-APPL-SN-496205 US-PATENT-CLASS-73-117
N71-22968* c 31 US-PATENT-3,365,941 NASA-CASE-XLA-02050 US-PATENT-APPL-SN-568067 US-PATENT-CLASS-244-1
N71-22969* c 31 US-PATENT-3,386,685 NASA-CASE-XLA-03132 US-PATENT-APPL-SN-610[illegible] US-PATENT-CLASS-244-1
N71-22974* c 03 US-PATENT-3,386,686 NASA-CASE-XGS-02630 US-PATENT-APPL-SN-494287 US-PATENT-CLASS-136-132
N71-22975* c 06 US-PATENT-3,382,107 NASA-CASE-XNP-07659 US-PATENT-APPL-SN-567806 US-PATENT-CLASS-18-26
N71-22982* c 15 US-PATENT-3,381,339 NASA-CASE-XLA-02809 US-PATENT-APPL-SN-554897 US-PATENT-CLASS-308-176
N71-22983* c 28 US-PATENT-3,397,932 NASA-CASE-XMF-06926 US-PATENT-APPL-SN-537615 US-PATENT-CLASS-60-258
N71-22984* c 07 US-PATENT-3,336,754 NASA-CASE-XMS-04312 US-PATENT-APPL-SN-521754 US-PATENT-CLASS-343-708
N71-22985* c 09 US-PATENT-3,384,895 NASA-CASE-XMF-03934 US-PATENT-APPL-SN-530958 US-PATENT-CLASS-250-83.3
N71-22986* c 10 US-PATENT-3,379,885 NASA-CASE-XMF-01892 US-PATENT-APPL-SN-464878 US-PATENT-CLASS-328-167
N71-22987* c 09 US-PATENT-3,375,451 NASA-CASE-XLE-04788 US-PATENT-APPL-SN-537617 US-PATENT-CLASS-318-352
N71-22988* c 09 US-PATENT-3,396,303 NASA-CASE-XGS-03104 US-PATENT-APPL-SN-483886 US-PATENT-CLASS-75-1
N71-22989* c 14 US-PATENT-3,381,517 NASA-CASE-XLA-01551 US-PATENT-APPL-SN-422092 US-PATENT-CLASS-73-190
N71-22990* c 14 US-PATENT-3,382,714 NASA-CASE-XMS-04201 US-PATENT-APPL-SN-507254 US-PATENT-CLASS-324-70
N71-22991* c 14 US-PATENT-3,379,974 NASA-CASE-XLA-01791 US-PATENT-APPL-SN-462763 US-PATENT-CLASS-250-227
N71-22992* c 14 US-PATENT-3,397,318 NASA-CASE-XGS-01023 US-PATENT-APPL-SN-446131 US-PATENT-CLASS-73-65
N71-22993* c 14 US-PATENT-3,377,845 NASA-CASE-XMS-05365 US-PATENT-APPL-SN-515484 US-PATENT-CLASS-310-8.5
N71-22994* c 15 US-PATENT-3,367,149 NASA-CASE-XFR-05421 US-PATENT-APPL-SN-567686 US-PATENT-CLASS-24-126
N71-22995* c 14 US-PATENT-3,378,892 NASA-CASE-XNP-06680 US-PATENT-APPL-SN-562444 US-PATENT-CLASS-73-9
N71-22996* c 14 US-PATENT-3,376,730 NASA-CASE-XGS-01331 US-PATENT-APPL-SN-445807 US-PATENT-CLASS-250-218
N71-22997* c 15 US-PATENT-3,388,258 NASA-CASE-XNP-01641 US-PATENT-APPL-SN-464885 US-PATENT-CLASS-308-10
N71-22998* c 18 US-PATENT-3,378,315 NASA-CASE-XGS-02435 US-PATENT-APPL-SN-392965 US-PATENT-CLASS-106-40
N71-22999* c 09 US-PATENT-3,382,062 NASA-CASE-XLA-00781 US-PATENT-APPL-SN-307271 US-PATENT-CLASS-88-14
N71-23001* c 07 US-PATENT-3,364,813 NASA-CASE-XGS-01812 US-PATENT-APPL-SN-392973 US-PATENT-CLASS-340-174.1
N71-23006* c 03 US-PATENT-3,380,042 NASA-CASE-XGS-02631 US-PATENT-APPL-SN-425972 US-PATENT-CLASS-136-133
N71-23007* c 02 US-PATENT-3,340,099 NASA-CASE-XMF-04163 US-PATENT-APPL-SN-424156 US-PATENT-CLASS-73-189
N71-23008* c 31 US-PATENT-3,340,732 NASA-CASE-XLA-04804 US-PATENT-APPL-SN-577546 US-PATENT-CLASS-102-49.5
N71-23009* c 31 US-PATENT-3,384,016 NASA-CASE-XGS-02607 US-PATENT-APPL-SN-474531 US-PATENT-CLASS-244-1
N71-23015* c 09 US-PATENT-3,341,151 NASA-CASE-XGS-02751 US-PATENT-APPL-SN-491059 US-PATENT-CLASS-307-288
N71-23021* c 09 US-PATENT-3,374,366 NASA-CASE-XAC-02807 US-PATENT-APPL-SN-456581 US-PATENT-CLASS-324-120
N71-23022* c 15 US-PATENT-3,384,820 NASA-CASE-XMS-01625 US-PATENT-APPL-SN-418933 US-PATENT-CLASS-136-86
N71-23023* c 15 US-PATENT-3,389,017 NASA-CASE-XMF-04042 US-PATENT-APPL-SN-605518 US-PATENT-CLASS-55-204
N71-23024* c 15 US-PATENT-3,397,512 NASA-CASE-XNP-01747 US-PATENT-APPL-SN-413661 US-PATENT-CLASS-251-148
N71-23025* c 15 US-PATENT-3,341,169 NASA-CASE-XNP-06877 US-PATENT-APPL-SN-574282 US-PATENT-CLASS-62-6
N71-23026* c 07 US-PATENT-3,367,121 NASA-CASE-XNP-02791 US-PATENT-APPL-SN-390251 US-PATENT-CLASS-178-6
N71-23027* c 09 US-PATENT-3,383,461 NASA-CASE-XNP-01960 US-PATENT-APPL-SN-438135 US-PATENT-CLASS-29-572
N71-23029* c 10 US-PATENT-3,340,599 NASA-CASE-XGS-03427 US-PATENT-APPL-SN-500446 US-PATENT-CLASS-307-265
N71-23030* c 11 US-PATENT-3,383,524 NASA-CASE-XNP-03578 US-PATENT-APPL-SN-445292 US-PATENT-CLASS-73-147
N71-23033* c 10 US-PATENT-3,342,066 NASA-CASE-XNP-01318 US-PATENT-APPL-SN-380965 US-PATENT-CLASS-340-174
N71-23036* c 14 US-PATENT-3,388,387 NASA-CASE-XNP-01660 US-PATENT-APPL-SN-578916 US-PATENT-CLASS-73-4
N71-23037* c 14 US-PATENT-3,383,903 NASA-CASE-XAC-01662 US-PATENT-APPL-SN-385520 US-PATENT-CLASS-324-117
N71-23039* c 14 US-PATENT-3,365,665 NASA-CASE-XNP-01659 US-PATENT-APPL-SN-410332 US-PATENT-CLASS-136-230
N71-23040* c 14 US-PATENT-3,377,208 NASA-CASE-XNP-05535 US-PATENT-APPL-SN-487939 US-PATENT-CLASS-244-1
N71-23041* c 14 US-PATENT-3,339,863 NASA-CASE-XNP-01056 US-PATENT-APPL-SN-377146 US-PATENT-CLASS-250-41.9
N71-23042* c 11 US-PATENT-3,340,395 NASA-CASE-XMS-02930 US-PATENT-APPL-SN-417253 US-PATENT-CLASS-250-52
N71-23043* c 26 US-PATENT-3,340,397 NASA-CASE-XNP-01959 US-PATENT-APPL-SN-410330 US-PATENT-CLASS-136-89
N71-23046* c 17 US-PATENT-3,396,057 NASA-CASE-XNP-04338 US-PATENT-APPL-SN-461765 US-PATENT-CLASS-29-182.2
N71-23047* c 18 US-PATENT-3,421,864 NASA-CASE-XLA-01995 US-PATENT-APPL-SN-411945 US-PATENT-CLASS-148-6.16
N71-23048* c 15 US-PATENT-3,395,053 NASA-CASE-XNP-03972 US-PATENT-APPL-SN-502710 US-PATENT-CLASS-184-1
N71-23049* c 15 US-PATENT-3,367,445 NASA-CASE-XMF-01049 US-PATENT-APPL-SN-506137 US-PATENT-CLASS-339-5
N71-23050* c 15 US-PATENT-3,375,479 NASA-CASE-XMF-01730 US-PATENT-APPL-SN-517869 US-PATENT-CLASS-228-8
N71-23051* c 15 US-PATENT-3,373,914 NASA-CASE-XAC-01158 US-PATENT-APPL-SN-420250 US-PATENT-CLASS-137-625.5
N71-23052* c 15 US-PATENT-3,369,564 NASA-CASE-XLA-03497 US-PATENT-APPL-SN-392992 US-PATENT-CLASS-156-285
N71-23060* c 05 US-PATENT-3,373,069 NASA-CASE-XLE-02531 US-PATENT-APPL-SN-425096 US-PATENT-CLASS-312-1
N71-23061* c 28 US-PATENT-3,337,279 NASA-CASE-XNP-02923 US-PATENT-APPL-SN-494280 US-PATENT-CLASS-60-202
N71-23064* c 10 US-PATENT-3,367,114 NASA-CASE-XLA-01219 US-PATENT-APPL-SN-402978 US-PATENT-CLASS-332-1
N71-23065* c 33 US-PATENT-3,366,894 NASA-CASE-XFR-03802 US-PATENT-APPL-SN-460877 US-PATENT-CLASS-73-190
N71-23066* c 15 US-PATENT-3,367,182 NASA-CASE-XMS-04533 US-PATENT-APPL-SN-557016 US-PATENT-CLASS-202-234
N71-23067* c 14 US-PATENT-3,397,117 NASA-CASE-XNP-03918 US-PATENT-APPL-SN-510475 US-PATENT-CLASS-73-88.5
N71-23068* c 18 US-PATENT-3,388,590 NASA-CASE-XNP-00597 US-PATENT-APPL-SN-410325 US-PATENT-CLASS-65-7
N71-23092* c 14 US-PATENT-3,337,315 NASA-CASE-XLA-01530 US-PATENT-APPL-SN-420466 US-PATENT-CLASS-168-1
N71-23093* c 14 US-PATENT-3,337,004 NASA-CASE-XLE-03280 US-PATENT-APPL-SN-517156 US-PATENT-CLASS-73-400
N71-23096* c 05 US-PATENT-3,379,064 NASA-CASE-XMS-06064 US-PATENT-APPL-SN-563646 US-PATENT-CLASS-2-14
N71-23097* c 09 US-PATENT-3,378,851 NASA-CASE-XNP-02140 US-PATENT-APPL-SN-440036 US-PATENT-CLASS-330-61

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US-PATENT-APPL-SN-353644
US-PATENT-CLASS-325-305
N71-23099* c 10 ..... US-PATENT-3,341,778
NASA-CASE-XNP-06875
US-PATENT-APPL-SN-640455
US-PATENT-CLASS-343-6.5
N71-23159* c 05 ..... US-PATENT-3,380,049
NASA-CASE-XMF-06589
US-PATENT-APPL-SN-543206
US-PATENT-CLASS-5-82
N71-23161* c 05 ..... US-PATENT-3,343,180
NASA-CASE-XAC-07043
US-PATENT-APPL-SN-566397
US-PATENT-CLASS-2-2.1
N71-23174* c 14 ..... US-PATENT-3,405,406
NASA-CASE-XGS-02610
US-PATENT-APPL-SN-491054
US-PATENT-CLASS-321-60
N71-23175* c 14 ..... US-PATENT-3,417,316
NASA-CASE-XKS-03509
US-PATENT-APPL-SN-566392
US-PATENT-CLASS-356-166
N71-23185* c 04 ..... US-PATENT-3,414,356
NASA-CASE-XAC-05422
US-PATENT-APPL-SN-483885
US-PATENT-CLASS-128-2.05
N71-23187* c 03 ..... US-PATENT-3,412,729
NASA-CASE-XGS-03390
US-PATENT-APPL-SN-551182
US-PATENT-CLASS-136-89
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NASA-CASE-XMF-14301
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US-PATENT-APPL-SN-649356
US-PATENT-CLASS-315-26
N71-23190* c 09 ..... US-PATENT-3,431,460
NASA-CASE-XLE-04501
US-PATENT-APPL-SN-522794
US-PATENT-CLASS-313-231
N71-23191* c 09 ..... US-PATENT-3,413,510
NASA-CASE-XMS-05890
US-PATENT-APPL-SN-650166
US-PATENT-CLASS-137-554
N71-23225* c 14 ..... US-PATENT-3,414,012
NASA-CASE-XNP-04817
US-PATENT-APPL-SN-516152
US-PATENT-CLASS-73-12
N71-23226* c 14 ..... US-PATENT-3,412,598
NASA-CASE-XNP-06509
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US-PATENT-CLASS-73-194
N71-23227* c 14 ..... US-PATENT-3,411,356
NASA-CASE-XMF-06515
US-PATENT-APPL-SN-548806
US-PATENT-CLASS-73-432
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NASA-CASE-XMF-06409
US-PATENT-APPL-SN-575930
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NASA-CASE-XMF-06217
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US-PATENT-APPL-SN-508873
US-PATENT-CLASS-250-227
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US-PATENT-APPL-SN-554950
US-PATENT-CLASS-75-170
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NASA-CASE-XFR-05302
US-PATENT-APPL-SN-685463
US-PATENT-CLASS-85-7
N71-23255* c 15 ..... US-PATENT-3,443,472
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US-PATENT-APPL-SN-580365
US-PATENT-CLASS-244-83
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US-PATENT-CLASS-53-22
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US-PATENT-CLASS-13-26
N71-23268* c 14 ..... US-PATENT-3,470,304
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US-PATENT-APPL-SN-335441
US-PATENT-CLASS-356-72

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NASA-CASE-XLA-01584
US-PATENT-APPL-SN-416943
US-PATENT-CLASS-250-203
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NASA-CASE-XMS-04919
US-PATENT-APPL-SN-516155
US-PATENT-CLASS-307-263
N71-23271* c 10 ..... US-PATENT-3,417,266
NASA-CASE-XNP-00952
US-PATENT-APPL-SN-388967
US-PATENT-CLASS-317-148.5
N71-23289* c 21 ..... US-PATENT-3,417,298
NASA-CASE-XMF-01669
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US-PATENT-CLASS-74-5.47
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US-PATENT-APPL-SN-603397
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US-PATENT-APPL-SN-563651
US-PATENT CLASS-60-202
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US-PATENT-APPL-SN-536216
US-PATENT-CLASS-307-234
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NASA-CASE-XMS-09352
US-PATENT-APPL-SN-564919
US-PATENT-CLASS-323-22
N71-23317* c 05 ..... US-PATENT-3,417,321
NASA-CASE-XMS-06061
US-PATENT-APPL-SN-605092
US-PATENT-CLASS-307-260
N71-23336* c 03 ..... US-PATENT-3,467,837
NASA-CASE-XGS-01513
US-PATENT-APPL-SN-502756
US-PATENT-CLASS-136-166
N71-23354* c 03 ..... US-PATENT-3,390,017
NASA-CASE-XLE-04535
US-PATENT-APPL-SN-588671
US-PATENT-CLASS-250-212
N71-23365* c 17 ..... US-PATENT-3,437,818
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US-PATENT-APPL-SN-521994
US-PATENT-CLASS-75-172
US-PATENT-3,413,115
N71-23401* c 14 ..... NASA-CASE-XGS-03230
US-PATENT-APPL-SN-517158
US-PATENT-CLASS-250-83
US-PATENT-3,419,992
N71-23405* c 07 ..... NASA-CASE-XGS-01537
US-PATENT-APPL-SN-432026
US-PATENT-CLASS-325-163
US-PATENT-3,417,332
N71-23443* c 09 ..... NASA-CASE-XLE-02823
US-PATENT-APPL-SN-491058
US-PATENT-CLASS-310-10
US-PATENT-3,393,332
N71-23449* c 03 ..... NASA-CASE-XLE-08569
US-PATENT-APPL-SN-641420
US-PATENT-CLASS-136-89
US-PATENT-3,472,698
N71-23497* c 01 ..... NASA-CASE-XLA-01486
US-PATENT-APPL-SN-484485
US-PATENT-CLASS-244-13
US-PATENT-3,392,936
N71-23499* c 06 ..... NASA-CASE-XNP-03835
US-PATENT-APPL-SN-456874
US-PATENT-CLASS-44-77
US-PATENT-3,393,059
N71-23500* c 06 ..... NASA-CASE-XNP-03250
US-PATENT-APPL-SN-485058
US-PATENT-CLASS-260-85.5
US-PATENT-3,419,537
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US-PATENT-CLASS-328-61
US-PATENT-3,464,018
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US-PATENT-APPL-SN-427990
US-PATENT-CLASS-23-230
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US-PATENT-APPL-SN-416945
US-PATENT-CLASS-317-31

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US-PATENT-APPL-SN-536217
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NASA-CASE-XMF-04367
US-PATENT-APPL-SN-457874
US-PATENT-CLASS-307-235
N71-23548* c 09 ..... US-PATENT-3,404,269
NASA-CASE-XNP-06507
US-PATENT-APPL-SN-605099
US-PATENT-CLASS-333-98
N71-23573* c 09 ..... US-PATENT-3,419,827
NASA-CASE-XGS-01418
US-PATENT-APPL-SN-392969
US-PATENT-CLASS-333-73
N71-23598* c 09 ..... US-PATENT-3,393,364
NASA-CASE-XER-11019
US-PATENT-APPL-SN-711971
US-PATENT-CLASS-331-/8
N71-23599* c 22 ..... US-PATENT-3,470,489
NASA-CASE-XLE-01903
US-PATENT-APPL-SN-466868
US-PATENT-CLASS-310-4
N71-23654* c 26 ..... US-PATENT-3,393,330
NASA-CASE-XLE-02798
US-PATENT-APPL-SN-660571
US-PATENT-CLASS-148-1.5
N71-23658* c 18 ..... US-PATENT-3,390,020
NASA-CASE-XLE-02647
US-PATENT-APPL-SN-430226
US-PATENT-CLASS-220-9
N71-23662* c 10 ..... US-PATENT-3,392,864
NASA-CASE-XGS-01118
US-PATENT-APPL-SN-408442
US-PATENT-CLASS-235-154
N71-23663* c 10 ..... US-PATENT-3,399,299
NASA-CASE-XKS-04631
US-PATENT-APPL-SN-663180
US-PATENT-CLASS-200-82
N71-23669* c 10 ..... US-PATENT-3,433,909
NASA-CASE-XAC-10607
US-PATENT-APPL-SN-694345
US-PATENT-CLASS-331-111
US-PATENT-3,470,495
N71-23698* c 14 ..... NASA-CASE-XGS-08259
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US-PATENT-CLASS-242-192
US-PATENT-3,460,781
N71-23699* c 14 ..... NASA-CASE-XMF-10289
US-PATENT-APPL-SN-674356
US-PATENT-CLASS-324-72
US-PATENT-3,470,466
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US-PATENT-CLASS-29-182.1
US-PATENT-3,419,363
N71-23723* c 30 ..... NASA-CASE-XNP-09832
US-PATENT-APPL-SN-632163
US-PATENT-CLASS-343-100
US-PATENT-3,417,399
N71-23725* c 14 ..... NASA-CASE-XGS-01013
US-PATENT-APPL-SN-665209
US-PATENT-CLASS-73-133
US-PATENT-3,460,381
N71-23726* c 14 ..... NASA-CASE-XMF-05224
US-PATENT-APPL-SN-660842
US-PATENT-CLASS-73-189
US-PATENT-3,465,584
N71-23755* c 14 ..... NASA-CASE-XMF-04134
US-PATENT-APPL-SN-610723
US-PATENT-CLASS-73-4
US-PATENT-3,472,059
N71-23790* c 14 ..... NASA-CASE-XAC-04885
US-PATENT-APPL-SN-573432
US-PATENT-CLASS-73-141
US-PATENT-3,415,116
N71-23797* c 14 ..... NASA-CASE-XNP-06510
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US-PATENT-CLASS-250-203
US-PATENT-3,417,247
N71-23798* c 15 ..... NASA-CASE-XMF-02330
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US-PATENT-CLASS-219-130
US-PATENT-3,469,069
N71-23809* c 15 ..... NASA-CASE-XAC-10019
US-PATENT-APPL-SN-685209
US-PATENT-CLASS-74-89.15
US-PATENT-3,472,086
N71-23810* c 15 ..... NASA-CASE-XLE-05033
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US-PATENT-CLASS-252-12
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N71-23811* c 15 ..... NASA-CASE-XNP-05297
US-PATENT-APPL-SN-640458
US-PATENT-CLASS-72-354

N71-23812* c 15 ..... US-PATENT-3,443,412
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US-PATENT-APPL-SN-684178
US-PATENT-CLASS-308-2
N71-23815* c 15 ..... US-PATENT-3,463,563
NASA-CASE-XMF-07069
US-PATENT-APPL-SN-672382
US-PATENT-CLASS-219-125
N71-23816* c 15 ..... US-PATENT-3,469,068
NASA-CASE-XLE-03803
US-PATENT-APPL-SN-505765
US-PATENT-CLASS-220-9
N71-23817* c 15 ..... US-PATENT-3,392,865
NASA-CASE-XLE-06773
US-PATENT-APPL-SN-646124
US-PATENT-CLASS-72-467
N71-23826* c 17 ..... US-PATENT-3,469,436
NASA-CASE-XMF-02303
US-PATENT-APPL-SN-453229
US-PATENT-CLASS-148-6.20
N71-23912* c 31 ..... US-PATENT-3,416,975
NASA-CASE-XMF-05941
US-PATENT-APPL-SN-653277
US-PATENT-CLASS-244-1
N71-23966* c 28 ..... US-PATENT-3,443,773
NASA-CASE-XLE-04857
US-PATENT-APPL-SN-621742
US-PATENT-CLASS-239-127.1
N71-23971* c 32 ..... US-PATENT-3,460,759
NASA-CASE-XAC-05632
US-PATENT-APPL-SN-568355
US-PATENT-CLASS-244-77
N71-23976* c 23 ..... US-PATENT-3,412,961
NASA-CASE-XLA-01987
US-PATENT-APPL-SN-542713
US-PATENT-CLASS-346-107
N71-24035* c 31 ..... US-PATENT-3,392,403
NASA-CASE-XLA-01027
US-PATENT-APPL-SN-494283
US-PATENT-CLASS-52-272
N71-24042* c 15 ..... US-PATENT-3,416,274
NASA-CASE-XNP-04731
US-PATENT-APPL-SN-534965
US-PATENT-CLASS-103-48
N71-24043* c 15 ..... US-PATENT-3,367,271
NASA-CASE-XKS-03338
US-PATENT-APPL-SN-547072
US-PATENT-CLASS-89-1.806
N71-24044* c 15 ..... US-PATENT-3,415,156
NASA-CASE-XMF-06888
US-PATENT-APPL-SN-591000
US-PATENT-CLASS-62-40
N71-24045* c 15 ..... US-PATENT-3,415,069
NASA-CASE-XGS-04548
US-PATENT-APPL-SN-672383
US-PATENT-CLASS-74-100
N71-24046* c 15 ..... US-PATENT-3,460,397
NASA-CASE-XLE-10337
US-PATENT-APPL-SN-594633
US-PATENT-CLASS-252-26
N71-24047* c 15 ..... US-PATENT-3,391,060
NASA-CASE-XGS-03120
US-PATENT-APPL-SN-485958
US-PATENT-CLASS-156-3
N71-24074* c 16 ..... US-PATENT-3,470,043
NASA-CASE-XLA-03375
US-PATENT-APPL-SN-512562
US-PATENT-CLASS-356-104
N71-24142* c 17 ..... US-PATENT-3,446,558
NASA-CASE-XLE-06969
US-PATENT-APPL-SN-655675
US-PATENT-CLASS-148-126
N71-24145* c 33 ..... US-PATENT-3,463,679
NASA-CASE-XLE-03432
US-PATENT-APPL-SN-553349
US-PATENT-CLASS-15-.35
N71-24147* c 05 ..... US-PATENT-3,409,730
NASA-CASE-XMS-10259
US-PATENT-APPL-SN-590158
US-PATENT-CLASS-165-45
N71-24164* c 15 ..... US-PATENT-3,425,486
NASA-CASE-XLA-01494
US-PATENT-APPL-SN-499122
US-PATENT-CLASS-156-545
N71-24170* c 16 ..... US-PATENT-3,416,988
NASA-CASE-XLA-04295
US-PATENT-APPL-SN-546149
US-PATENT-CLASS-356-107
N71-24183* c 18 ..... US-PATENT-3,468,609
NASA-CASE-XGS-04799
US-PATENT-APPL-SN-452944
US-PATENT-CLASS-106-84
N71-24184* c 18 ..... US-PATENT-3,416,939
NASA-CASE-XNP-02139
US-PATENT-APPL-SN-430777
US-PATENT-CLASS-106-84

N71-24232* c 14 ..... US-PATENT-3,434,855
NASA-CASE-XAC-04458
US-PATENT-APPL-SN-534975
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N71-24233* c 14 ..... US-PATENT-3,392,586
NASA-CASE-XGS-04478
US-PATENT-APPL-SN-566717
US-PATENT-CLASS-73-88.5
N71-24234* c 14 ..... US-PATENT-3,460,378
NASA-CASE-XMF-10968
US-PATENT-APPL-SN-644447
US-PATENT-CLASS-73-15.6
N71-24276* c 33 ..... US-PATENT-3,469,437
NASA-CASE-XLA-02059
US-PATENT-APPL-SN-576182
US-PATENT-CLASS-165-12
N71-24285* c 32 ..... US-PATENT-3,406,742
NASA-CASE-XMF-02392
US-PATENT-APPL-SN-596735
US-PATENT-CLASS-73-49.2
N71-24315* c 31 ..... US-PATENT-3,399,574
NASA-CASE-XLA-04901
US-PATENT-APPL-SN-586325
US-PATENT-CLASS-244-1
N71-24321* c 28 ..... US-PATENT-3,405,887
NASA-CASE-XNP-03692
US-PATENT-APPL-SN-640787
US-PATENT-CLASS-60-263
N71-24583* c 07 ..... US-PATENT-3,443,384
NASA-CASE-NPO-10096
US-PATENT-APPL-SN-730700
US-PATENT-CLASS-329-140
N71-24595* c 09 ..... US-PATENT-3,533,001
NASA-CASE-GSC-10021-1
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US-PATENT-CLASS-343-7.5
N71-24596* c 09 ..... US-PATENT-3,540,045
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US-PATENT-APPL-SN-759460
US-PATENT-CLASS-73-398
N71-24599* c 15 ..... US-PATENT-3,545,275
NASA-CASE-MSC-12052-1
US-PATENT-APPL-SN-770371
US-PATENT-CLASS-254-150
US-PATENT-CLASS-254-173
US-PATENT-CLASS-254-186
N71-24600* c 15 ..... US-PATENT-3,545,725
NASA-CASE-XGS-08718
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US-PATENT-CLASS-244-1
US-PATENT-CLASS-244-150
US-PATENT-CLASS-74-2
US-PATENT-CLASS-89-1.5
US-PATENT-CLASS-9-9
N71-24605* c 03 ..... US-PATENT-3,540,676
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US-PATENT-CLASS-320-17
N71-24606* c 05 ..... US-PATENT-3,413,536
NASA-CASE-XKS-10804
US-PATENT-APPL-SN-691909
US-PATENT-CLASS-35-17
N71-24607* c 06 ..... US-PATENT-3,508,347
NASA-CASE-XNP-09699
US-PATENT-APPL-SN-711972
US-PATENT-CLASS-73-17
N71-24612* c 07 ..... US-PATENT-3,546,920
NASA-CASE-XMF-06092
US-PATENT-APPL-SN-550088
US-PATENT-CLASS-178-7.1
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NASA-CASE-NPO-10851
US-PATENT-APPL-SN-805406
US-PATENT-CLASS-325-325
N71-24614* c 07 ..... US-PATENT-3,551,816
NASA-CASE-XKS-09340
US-PATENT-APPL-SN-666555
US-PATENT-CLASS-343-703
N71-24618* c 09 ..... US-PATENT-3,540,056
NASA-CASE-FRC-10029
US-PATENT-APPL-SN-760389
US-PATENT-CLASS-128-2.06
N71-24621* c 07 ..... US-PATENT-3,547,105
NASA-CASE-GSC-10118-1
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US-PATENT-CLASS-179-15
US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-100
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NASA-CASE-NPO-10388
US-PATENT-APPL-SN-725432
US-PATENT-CLASS-179-15

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US-PATENT-APPL-SN-586329
US-PATENT-CLASS-2-2.1
N71-24624* c 07 ..... US-PATENT-3,516,091
NASA-CASE-GSC-10131-1
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US-PATENT-CLASS-340-172.5
N71-24625* c 07 ..... US-PATENT-3,546,684
NASA-CASE-XMS-09610
US-PATENT-APPL-SN-766170
US-PATENT-CLASS-343-113
N71-24633* c 08 ..... US-PATENT-3,540,054
NASA-CASE-NPO-10567
US-PATENT-APPL-SN-679055
US-PATENT-CLASS-235-153
N71-24650* c 08 ..... US-PATENT-3,517,171
NASA-CASE-NPO-10150
US-PATENT-APPL-SN-660843
US-PATENT-CLASS-340-347
N71-24679* c 15 ..... US-PATENT-3,537,103
NASA-CASE-XNP-10475
US-PATENT-APPL-SN-763868
US-PATENT-CLASS-72-369
N71-24681* c 03 ..... US-PATENT-3,546,917
NASA-CASE-XLE-08569-2
US-PATENT-APPL-SN-829825
US-PATENT-CLASS-29-572
N71-24692* c 12 ..... US-PATENT-3,541,679
NASA-CASE-XFR-02007
US-PATENT-APPL-SN-378080
US-PATENT-CLASS-73-389
N71-24693* c 14 ..... US-PATENT-3,273,399
NASA-CASE-XMF-04415
US-PATENT-APPL-SN-644446
US-PATENT-CLASS-33-174
N71-24694* c 15 ..... US-PATENT-3,360,864
NASA-CASE-GSC-10306-1
US-PATENT-APPL-SN-789278
US-PATENT-CLASS-248-358
N71-24695* c 15 ..... US-PATENT-3,537,672
NASA-CASE-XNP-06936
US-PATENT-APPL-SN-640786
US-PATENT-CLASS-318-382
N71-24696* c 15 ..... US-PATENT-3,487,261
NASA-CASE-NPO-10173
US-PATENT-APPL-SN-796360
US-PATENT-CLASS-310-101
N71-24717* c 09 ..... US-PATENT-3,535,570
NASA-CASE-XMF-08804
US-PATENT-APPL-SN-683606
US-PATENT-CLASS-324-181
N71-24718* c 03 ..... US-PATENT-3,543,159
NASA-CASE-MSC-10960-1
US-PATENT-APPL-SN-751198
US-PATENT-CLASS-204-305
N71-24719* c 03 ..... US-PATENT-3,547,801
NASA-CASE-GSC-10487-1
US-PATENT-APPL-SN-828983
US-PATENT-CLASS-320-39
N71-24725* c 23 ..... US-PATENT-3,541,422
NASA-CASE-GSC-10188-1
US-PATENT-APPL-SN-791888
US-PATENT-CLASS-62-384
N71-24728* c 05 ..... US-PATENT-3,545,226
NASA-CASE-MSC-12243-1
US-PATENT-APPL-SN-857445
US-PATENT-CLASS-244-1
N71-24729* c 05 ..... US-PATENT-3,537,668
NASA-CASE-MSC-13282-1
US-PATENT-APPL-SN-8498
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N71-24730* c 05 ..... US-PATENT-3,548,812
NASA-CASE-XMS-09637-1
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US-PATENT-CLASS-2-2.1
N71-24736* c 28 ..... US-PATENT-3,537,107
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US-PATENT-APPL-SN-591014
US-PATENT-CLASS-60-240
N71-24738* c 05 ..... US-PATENT-3,408,816
NASA-CASE-ARC-10100-1
US-PATENT-APPL-SN-797058
US-PATENT-CLASS-128-24
US-PATENT-CLASS-128-25
N71-24739* c 06 ..... US-PATENT-3,550,585
NASA-CASE-ARC-10098-1
US-PATENT-APPL-SN-702967
US-PATENT-CLASS-260-2.5
N71-24740* c 06 ..... US-PATENT-3,549,564
NASA-CASE-XMF-03074
US-PATENT-APPL-SN-593595
US-PATENT-CLASS-260-72.5
N71-24741* c 07 ..... US-PATENT-3,516,971
NASA-CASE-NPO-10118

US-PATENT-APPL-SN-704465
US-PATENT-CLASS-235-152
US-PATENT-3,541,314

N71-24742* c 07 ..... NASA-CASE-NPO-10140
US-PATENT-APPL-SN-691737
US-PATENT-CLASS-187-7.1
US-PATENT-3,541,250

N71-24750* c 31 ..... NASA-CASE-XGS-01654
US-PATENT-APPL-SN-434148
US-PATENT-CLASS-102-50
US-PATENT-3,282,541

N71-24798* c 10 ..... NASA-CASE-XLE-03061-1
US-PATENT-APPL-SN-832152
US-PATENT-CLASS-340-412
US-PATENT-3,546,694

N71-24799* c 10 ..... NASA-CASE-XNP-06505
US-PATENT-APPL-SN-562933
US-PATENT-CLASS-307-254
US-PATENT-3,501,648

N71-24800* c 09 ..... NASA-CASE-ERC-10075
US-PATENT-APPL-SN-775870
US-PATENT-CLASS-321-45
US-PATENT-3,539,905

N71-24803* c 09 ..... NASA-CASE-NPO-10242
US-PATENT-APPL-SN-749181
US-PATENT-CLASS-307-88
US-PATENT-3,541,346

N71-24804* c 09 ..... NASA-CASE-GSC-10299-1
US-PATENT-APPL-SN-836367
US-PATENT-CLASS-343-100
US-PATENT-3,540,050

N71-24805* c 09 ..... NASA-CASE-XMF-06892
US-PATENT-APPL-SN-757875
US-PATENT-CLASS-318-318
US-PATENT-3,546,553

N71-24806* c 09 ..... NASA-CASE-NPO-10198
US-PATENT-APPL-SN-723804
US-PATENT-CLASS-328-165
US-PATENT-3,550,023

N71-24807* c 09 ..... NASA-CASE-MFS-14114-2
US-PATENT-APPL-SN-854815
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-107
US-PATENT-CLASS-165-138
US-PATENT-CLASS-310-4
US-PATENT-3,537,515

N71-24808* c 09 ..... NASA-CASE-XNP-08880
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US-PATENT-CLASS-333-98
US-PATENT-3,416,106

N71-24809* c 14 ..... NASA-CASE-XNP-06961
US-PATENT-APPL-SN-661170
US-PATENT-CLASS-250-84
US-PATENT-3,487,216

N71-24813* c 31 ..... NASA-CASE-XAC-06029-1
US-PATENT-APPL-SN-588651
US-PATENT-CLASS-343-100
US-PATENT-3,540,048

N71-24828* c 16 ..... NASA-CASE-XAC-10770-1
US-PATENT-APPL-SN-690997
US-PATENT-CLASS-356-28
US-PATENT-3,547,540

N71-24830* c 17 ..... NASA-CASE-XNP-04148
US-PATENT-APPL-SN-536210
US-PATENT-CLASS-204-38
US-PATENT-3,472,742

N71-24831* c 16 ..... NASA-CASE-NPO-10548
US-PATENT-APPL-SN-775072
US-PATENT-CLASS-330-4
US-PATENT-3,486,123

N71-24832* c 16 ..... NASA-CASE-ERC-10178
US-PATENT-APPL-SN-800973
US-PATENT-CLASS-331-94.5
US-PATENT-3,550,034

N71-24833* c 15 ..... NASA-CASE-XMF-03793
US-PATENT-APPL-SN-453225
US-PATENT-CLASS-72-56
US-PATENT-3,360,972

N71-24834* c 15 ..... NASA-CASE-XNP-05634
US-PATENT-APPL-SN-605096
US-PATENT-CLASS-73-95
US-PATENT-3,460,379

N71-24835* c 15 ..... NASA-CASE-NPO-10123
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US-PATENT-CLASS-128-275
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N71-24836* c 15 ..... NASA-CASE-XLE-08917-2
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N71-24840* c 07 ..... NASA-CASE-NPO-10649
US-PATENT-APPL-SN-795182
US-PATENT-CLASS-325-113
US-PATENT-3,541,450

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US-PATENT-APPL-SN-698630
US-PATENT-CLASS-333-83
US-PATENT-3,541,479

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US-PATENT-APPL-SN-881039
US-PATENT-CLASS-343-797
US-PATENT-3,546,705

N71-24843* c 09 ..... NASA-CASE-XMF-06617
US-PATENT-APPL-SN-656993
US-PATENT-CLASS-324-71
US-PATENT-3,541,439

N71-24844* c 10 ..... NASA-CASE-NPO-10169
US-PATENT-APPL-SN-701733
US-PATENT-CLASS-328-171
US-PATENT-3,541,459

N71-24857* c 23 ..... NASA-CASE-XMS-06056-1
US-PATENT-APPL-SN-532006
US-PATENT-CLASS-350-189
US-PATENT-3,472,577

N71-24858* c 33 ..... NASA-CASE-MFS-14253
US-PATENT-APPL-SN-709622
US-PATENT-CLASS-161-69
US-PATENT-3,551,266

N71-24861* c 10 ..... NASA-CASE-XMF-05195
US-PATENT-APPL-SN-785595
US-PATENT-CLASS-318-599
US-PATENT-3,523,228

N71-24862* c 10 ..... NASA-CASE-FRC-10010
US-PATENT-APPL-SN-771937
US-PATENT-CLASS-307-235
US-PATENT-3,543,050

N71-24863* c 10 ..... NASA-CASE-XMF-02966
US-PATENT-APPL-SN-560968
US-PATENT-CLASS-324-70
US-PATENT-3,406,336

N71-24864* c 14 ..... NASA-CASE-XLE-04503
US-PATENT-APPL-SN-606463
US-PATENT-CLASS-250-225
US-PATENT-3,546,471

N71-24865* c 15 ..... NASA-CASE-XMF-05114-3
US-PATENT-APPL-SN-837378
US-PATENT-CLASS-72-56
US-PATENT-3,540,250

N71-24868* c 23 ..... NASA-CASE-ERC-10001
US-PATENT-APPL-SN-712099
US-PATENT-CLASS-350-310
US-PATENT-3,540,802

N71-24875* c 15 ..... NASA-CASE-XLA-06199
US-PATENT-APPL-SN-702911
US-PATENT-CLASS-148-6.11
US-PATENT-3,540,942

N71-24876* c 33 ..... NASA-CASE-XNP-05524
US-PATENT-APPL-SN-250567
US-PATENT-CLASS-165-2
US-PATENT-3,270,802

N71-24890* c 08 ..... NASA-CASE-XKS-06167
US-PATENT-APPL-SN-649076
US-PATENT-CLASS-235-155
US-PATENT-3,535,497

N71-24891* c 08 ..... NASA-CASE-XNP-09759
US-PATENT-APPL-SN-606462
US-PATENT-CLASS-235-92
US-PATENT-3,541,312

N71-24892* c 09 ..... NASA-CASE-NPO-10716
US-PATENT-APPL-SN-851394
US-PATENT-CLASS-307-104
US-PATENT-CLASS-317-123
US-PATENT-CLASS-317-148.5
US-PATENT-3,549,955

N71-24893* c 09 ..... NASA-CASE-ERC-10125
US-PATENT-APPL-SN-773029
US-PATENT-CLASS-323-56
US-PATENT-3,541,428

N71-24895* c 15 ..... NASA-CASE-XLA-07473
US-PATENT-APPL-SN-839935
US-PATENT-CLASS-318-265
US-PATENT-3,546,552

N71-24896* c 15 ..... NASA-CASE-ERC-10034
US-PATENT-APPL-SN-763706
US-PATENT-CLASS-250-43.5
US-PATENT-3,549,882

N71-24897* c 15 ..... NASA-CASE-XLA-03536
US-PATENT-APPL-SN-749149
US-PATENT-CLASS-294-83
US-PATENT-3,508,779

N71-24903* c 15 ..... NASA-CASE-MFS-20395
US-PATENT-APPL-SN-830715
US-PATENT-CLASS-285-314
US-PATENT-CLASS-285-317
US-PATENT-CLASS-285-38
US-PATENT-CLASS-285-406
US-PATENT-3,545,792

N71-24904* c 09 ..... NASA-CASE-MFS-20385
US-PATENT-APPL-SN-853716
US-PATENT-CLASS-310-10
US-PATENT-3,541,361

N71-24910* c 15 ..... NASA-CASE-ERC-10045
US-PATENT-APPL-SN-763685
US-PATENT-CLASS-73-40.7
US-PATENT-3,548,636

N71-24911* c 17 ..... NASA-CASE-XLE-04946
US-PATENT-APPL-SN-605093
US-PATENT-CLASS-118-308
US-PATENT-3,472,202

N71-24934* c 18 ..... NASA-CASE-NPO-10051
US-PATENT-APPL-SN-711898
US-PATENT-CLASS-73-38
US-PATENT-3,548,633

N71-24948* c 21 ..... NASA-CASE-ERC-10090
US-PATENT-APPL-SN-811542
US-PATENT-CLASS-343-112
US-PATENT-3,550,129

N71-24964* c 11 ..... NASA-CASE-NPO-10141
US-PATENT-APPL-SN-673227
US-PATENT-CLASS-62-55.5
US-PATENT-3,443,390

N71-24984* c 15 ..... NASA-CASE-MFS-14971
US-PATENT-APPL-SN-827579
US-PATENT-CLASS-74-468
US-PATENT-3,541,875

N71-24985* c 11 ..... NASA-CASE-KSC-10126
US-PATENT-APPL-SN-845973
US-PATENT-CLASS-73-15
US-PATENT-3,545,252

N71-25139* c 10 ..... NASA-CASE-MFS-10068
US-PATENT-APPL-SN-700541
US-PATENT-CLASS-321-9
US-PATENT-3,487,286

N71-25213* c 28 ..... NASA-CASE-GSC-10709-1
US-PATENT-APPL-SN-791288
US-PATENT-CLASS-60-202
US-PATENT-3,545,208

N71-25351* c 33 ..... NASA-CASE-MFS-14023
US-PATENT-APPL-SN-795217
US-PATENT-CLASS-161-161
US-PATENT-CLASS-220-9
US-PATENT-CLASS-52-249
US-PATENT-CLASS-52-404
US-PATENT-CLASS-62-45
US-PATENT-3,540,615

N71-25353* c 33 ..... NASA-CASE-MFS-20355
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US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-133
US-PATENT-CLASS-219-378
US-PATENT-CLASS-219-530
US-PATENT-CLASS-244-1
US-PATENT-3,548,930

N71-25360* c 32 ..... NASA-CASE-XLA-08530
US-PATENT-APPL-SN-808577
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N71-25434* c 31 ..... NASA-CASE-MSC-13047-1
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US-PATENT-CLASS-244-113
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US-PATENT-3,547,376

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US-PATENT-CLASS-152-250
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US-PATENT-CLASS-308-9
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US-PATENT-CLASS-330-30D
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US-PATENT-CLASS-328-38
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US-PATENT-CLASS-332-31
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US-PATENT-CLASS-321-25
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US-PATENT-CLASS-128-2R
US-PATENT-CLASS-307-231
US-PATENT-CLASS-307-247
US-PATENT-CLASS-307-288
US-PATENT-CLASS-325-29
US-PATENT-CLASS-325-492
US-PATENT-CLASS-340-171
US-PATENT-CLASS-340-203
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US-PATENT-CLASS-321-18
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45
US-PATENT-CLASS-331-117
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US-PATENT-CLASS-200-82C
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N72-22235* c 10 ..... NASA-CASE-GSC-10064-1
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US-PATENT-CLASS-343-7.4
US-PATENT-CLASS-343-779
US-PATENT-CLASS-343-786
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N72-22236* c 10 ..... NASA-CASE-GSC-10878-1
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US-PATENT-CLASS-307-215
US-PATENT-CLASS-307-322
US-PATENT-CLASS-307-323
US-PATENT-3,621,277
N72-22245* c 11 ..... NASA-CASE-NPO-12109
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US-PATENT-CLASS-230-54
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US-PATENT-CLASS-73-147
US-PATENT-3,620,076
N72-22247* c 11 ..... NASA-CASE-NPO-11013
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US-PATENT-CLASS-42-1F
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N72-22437* c 14 ..... NASA-CASE-LAR-10496-1
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N72-22438* c 14 ..... NASA-CASE-ARC-10263-1
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US-PATENT-CLASS-73-398C
US-PATENT-3,620,083
N72-22439* c 14 ..... NASA-CASE-MFS-20890
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US-PATENT-CLASS-29-421
US-PATENT-CLASS-310-11
US-PATENT-CLASS-310-42
US-PATENT-3,626,218
N72-22440* c 14 ..... NASA-CASE-ARC-10154-1
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US-PATENT-CLASS-73-67.2
US-PATENT-3,620,069
N72-22441* c 14 ..... NASA-CASE-NPO-11002
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US-PATENT-CLASS-350-23
US-PATENT-CLASS-350-26
US-PATENT-CLASS-350-35
US-PATENT-CLASS-350-36
US-PATENT-CLASS-350-49
US-PATENT-CLASS-350-52
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US-PATENT-CLASS-73-304
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N72-22443* c 14 ..... NASA-CASE-XGS-03736
US-PATENT-APPL-SN-749320
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US-PATENT-CLASS-96-90PC
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N72-22444* c 14 ..... NASA-CASE-LAR-10523-1
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US-PATENT-CLASS-350-16
US-PATENT-CLASS-350-52
US-PATENT-CLASS-356-248
US-PATENT-3,647,276
N72-22445* c 14 ..... NASA-CASE-LAR-10184
US-PATENT-APPL-SN-16808
US-PATENT-CLASS-33-174S
US-PATENT-CLASS-350-86
US-PATENT-3,620,595

N72-22482* c 15 ..... NASA-CASE-XLA-04897
US-PATENT-APPL-SN-880249
US-PATENT-CLASS-73-133
US-PATENT-3,613,457

N72-22483* c 15 ..... NASA-CASE-XNP-09770-2
US-PATENT-APPL-SN-864039
US-PATENT-CLASS-209-349
US-PATENT-3,615,021

N72-22484* c 15 ..... NASA-CASE-LAR-10031
US-PATENT-APPL-SN-867851
US-PATENT-CLASS-62-55.5
US-PATENT-3,625,018

N72-22485* c 15 ..... NASA-CASE-MSC-13512-1
US-PATENT-APPL-SN-73932
US-PATENT-CLASS-74-501R
US-PATENT-3,625,084

N72-22486* c 15 ..... NASA-CASE-KSC-10031
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US-PATENT-CLASS-317-101DH
US-PATENT-CLASS-317-117
US-PATENT-CLASS-317-120
US-PATENT-3,639,809

N72-22487* c 15 ..... NASA-CASE-GSC-10303
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US-PATENT-3,619,896

N72-22488* c 15 ..... NASA-CASE-MSC-11849-1
US-PATENT-APPL-SN-6817
US-PATENT-CLASS-85-1
US-PATENT-3,623,394

N72-22489* c 15 ..... NASA-CASE-GSC-10519-1
US-PATENT-APPL-SN-789045
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US-PATENT-CLASS-55-446
US-PATENT-CLASS-55-464
US-PATENT-3,623,828

N72-22490* c 15 ..... NASA-CASE-LEW-10856-1
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US-PATENT-CLASS-308-195
US-PATENT-3,620,585

N72-22491* c 15 ..... NASA-CASE-GSC-10913
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US-PATENT-CLASS-219-234
US-PATENT-CLASS-219-85
US-PATENT-CLASS-228-57
US-PATENT-CLASS-29-628
US-PATENT-3,621,194

N72-22492* c 15 ..... NASA-CASE-MFS-20482
US-PATENT-APPL-SN-6610
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US-PATENT-CLASS-29-473.1
US-PATENT-3,602,979

N72-22520* # c 16 ..... NASA-CASE-LAR-10815-1
US-PATENT-APPL-SN-233587

N72-22530* c 17 ..... NASA-CASE-XLE-06461
US-PATENT-APPL-SN-853855
US-PATENT-CLASS-75-.5B
US-PATENT-3,623,861

N72-22535* c 17 ..... NASA-CASE-LEW-10874-1
US-PATENT-APPL-SN-68024
US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-3,620,716

N72-22566* c 18 ..... NASA-CASE-MFS-20011
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US-PATENT-CLASS-106-288B
US-PATENT-CLASS-106-84
US-PATENT-3,620,791

N72-22567* c 18 ..... NASA-CASE-NPO-11091
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US-PATENT-CLASS-260-2.1E
US-PATENT-3,629,161

N72-22619* c 21 ..... NASA-CASE-ARC-10179-1
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US-PATENT-CLASS-340-26
US-PATENT-3,624,598

N72-22673* c 23 ..... NASA-CASE-XER-07896-2
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US-PATENT-CLASS-350-310
US-PATENT-3,620,606

N72-22769* c 28 ..... NASA-CASE-ARC-10106-1
US-PATENT-APPL-SN-812998
US-PATENT-CLASS-244-3.22
US-PATENT-3,612,442

N72-22770* c 28 ..... NASA-CASE-LEW-10770-1
US-PATENT-APPL-SN-880246
US-PATENT-CLASS-60-202
US-PATENT-3,613,370

N72-22771* c 28 ..... NASA-CASE-LEW-10635-1
US-PATENT-APPL-SN-67815
US-PATENT-CLASS-60-202
US-PATENT-3,620,018

N72-22772* c 28 ..... NASA-CASE-NPO-12072
US-PATENT-APPL-SN-82647
US-PATENT-CLASS-123-122AB
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-261-145
US-PATENT-3,640,256

N72-22874* c 31 ..... NASA-CASE-NPO-10683
US-PATENT-APPL-SN-26573
US-PATENT-CLASS-136-89
US-PATENT-CLASS-312-257
US-PATENT-3,620,846

N72-23048* c 03 ..... NASA-CASE-NPO-11388
US-PATENT-APPL-SN-119282
US-PATENT-CLASS-310-2
US-PATENT CLASS-321-2
US-PATENT-CLASS-322-2
US-PATENT-3,648,152

N72-23065* c 05 ..... NASA-CASE-LAR-10102-1
US-PATENT-APPL-SN-13266
US-PATENT-CLASS-224-25A
US-PATENT-3,649,921

N72-23171* c 09 ..... NASA-CASE-GSC-10221-1
US-PATENT-APPL-SN-779025
US-PATENT-CLASS-307-252N
US-PATENT-CLASS-307-252R
US-PATENT-CLASS-307-259
US-PATENT-CLASS-307-305
US-PATENT-3,621,294

N72-23172* c 09 ..... NASA-CASE-LAR-10320-1
US-PATENT-APPL-SN-18427
US-PATENT-CLASS-324-20R
US-PATENT-3,649,907

N72-23173* c 09 ..... NASA-CASE-ERC-10267
US-PATENT-APPL-SN-41348
US-PATENT-CLASS-235-197
US-PATENT-CLASS-307-229
US-PATENT-CLASS-328-145
US-PATENT-3,648,043

N72-23215* c 11 ..... NASA-CASE-MFS-20710
US-PATENT-APPL-SN-114848
US-PATENT-CLASS-13-20
US-PATENT-CLASS-13-31
US-PATENT-3,647,924

N72-23457* c 14 ..... NASA-CASE-MSC-12297
US-PATENT-APPL-SN-792623
US-PATENT-CLASS-55-493
US-PATENT-CLASS-55-498
US-PATENT-CLASS-55-502
US-PATENT-CLASS-55-521
US-PATENT-3,650,095

N72-23497* c 15 ..... NASA-CASE-KSC-10242
US-PATENT-APPL-SN-73834
US-PATENT-CLASS-219-109
US-PATENT-CLASS-219-234
US-PATENT-CLASS-219-85
US-PATENT-CLASS-324-65R
US-PATENT-3,621,193

N72-23581* c 18 ..... NASA-CASE-GSC-10361-1
US-PATENT-APPL-SN-700040
US-PATENT-CLASS-106-84
US-PATENT-3,620,784

N72-23695* c 23 ..... NASA-CASE-HQN-10541-3
US-PATENT-APPL-SN-822089
US-PATENT-CLASS-350-171
US-PATENT-3,606,522

N72-23809* c 28 ..... NASA-CASE-XNP-09461
US-PATENT-APPL-SN-670829
US-PATENT-CLASS-239-416
US-PATENT-CLASS-239-433
US-PATENT-CLASS-239-543
US-PATENT-3,650,474

N72-23810* c 28 ..... NASA-CASE-NPO-11458
US-PATENT-APPL-SN-36926
US-PATENT-CLASS-60-266
US-PATENT-CLASS-60-271
US-PATENT-3,648,461

N72-24037* c 03 ..... NASA-CASE-GSC-11514-1
US-PATENT-APPL-SN-820453
US-PATENT-CLASS-117-201
US-PATENT-CLASS-136-89
US-PATENT-3,653,970

N72-24477* c 14 ..... NASA-CASE-ARC-10138-1
US-PATENT-APPL-SN-774733
US-PATENT-CLASS-250-83.3H
US-PATENT-CLASS-317-247
US-PATENT-CLASS-324-61R
US-PATENT-CLASS-73-355R
US-PATENT-3,657,644

N72-24522* c 15 ..... NASA-CASE-NPO-11036
US-PATENT-APPL-SN-41346
US-PATENT-CLASS-264-92
US-PATENT-3,658,974

N72-24753* c 25 ..... NASA-CASE-XNP-04167-2
US-PATENT-APPL-SN-866442
US-PATENT-CLASS-313-186
US-PATENT-CLASS-313-212
US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-231
US-PATENT-CLASS-315-111
US-PATENT-CLASS-315-326
US-PATENT-CLASS-315-358
US-PATENT-CLASS-331-94.5
US-PATENT-3,617,804

N72-25019* c 03 ..... NASA-CASE-NPO-10575
US-PATENT-APPL-SN-6615
US-PATENT-CLASS-156-250
US-PATENT-CLASS-156-510
US-PATENT-3,654,036

N72-25020* c 03 ..... NASA-CASE-GSC-11211-1
US-PATENT-APPL-SN-139528
US-PATENT-CLASS-235-92T
US-PATENT-CLASS-307-141.8
US-PATENT-CLASS-320-48
US-PATENT-CLASS-324-29.5
US-PATENT-3,663,938

N72-25021* c 03 ..... NASA-CASE-NPO-11118
US-PATENT-APPL-SN-8650
US-PATENT-CLASS-214-90R
US-PATENT-3,666,120

N72-25119* c 05 ..... NASA-CASE-MSC-12397-1
US-PATENT-APPL-SN-785613
US-PATENT-CLASS-2-115
US-PATENT-CLASS-2-2.1
US-PATENT-3,660,851

N72-25120* c 05 ..... NASA-CASE-MSC-90153-2
US-PATENT-APPL-SN-844225
US-PATENT-CLASS-106-209
US-PATENT-CLASS-128-2.1
US-PATENT-CLASS-128-417
US-PATENT-CLASS-252-514
US-PATENT-CLASS-264-104
US-PATENT-3,665,064

N72-25121* c 05 ..... NASA-CASE-FRC-10029-2
US-PATENT-APPL-SN-78704
US-PATENT-CLASS-156-264
US-PATENT-CLASS-156-306
US-PATENT-CLASS-29-25.14
US-PATENT-CLASS-29-25.18
US-PATENT-CLASS-29-482
US-PATENT-CLASS-29-630A
US-PATENT-3,662,441

N72-25122* c 05 ..... NASA-CASE-MSC-13609-1
US-PATENT-APPL-SN-94347
US-PATENT-CLASS-128-2N
US-PATENT-3,662,744

N72-25146* c 06 ..... NASA-CASE-NPO-11322
US-PATENT-APPL-SN-87550
US-PATENT-CLASS-250-43.5R
US-PATENT-CLASS-73-23.1
US-PATENT-3,666,942

N72-25147* c 06 ..... NASA-CASE-ARC-10325
US-PATENT-APPL-SN-63610
US-PATENT-CLASS-260-2.5FP
US-PATENT-3,663,464

N72-25148* c 06 ..... NASA-CASE-MFS-13924-2
US-PATENT-APPL-SN-870689
US-PATENT-CLASS-260-348SC
US-PATENT-3,660,434

N72-25149* c 06 ..... NASA-CASE-GSC-10565-1
US-PATENT-APPL-SN-822039
US-PATENT-CLASS-195-103.5R
US-PATENT-CLASS-195-28N
US-PATENT-CLASS-260-211.5
US-PATENT-3,660,240

N72-25150* c 06 ..... NASA-CASE-XLE-06774-2
US-PATENT-APPL-SN-5114
US-PATENT-CLASS-117-132
US-PATENT-CLASS-117-161
US-PATENT-CLASS-260-2.5
US-PATENT-CLASS-260-92.1
US-PATENT-3,666,741

N72-25151* c 06 ..... NASA-CASE-MFS-20979
US-PATENT-APPL-SN-100774
US-PATENT-CLASS-260-18S
US-PATENT-CLASS-260-448.2D
US-PATENT-CLASS-260-46.5E
US-PATENT-CLASS-260-46.5G
US-PATENT-CLASS-260-46.5P
US-PATENT-3,666,718

N72-25152* c 06 ..... NASA-CASE-NPO-10863-2
US-PATENT-APPL-SN-145026
US-PATENT-CLASS-260-92.1
US-PATENT-3,663,521

N72-25170* c 07 ..... NASA-CASE-LAR-10513-1
US-PATENT-APPL-SN-64723
US-PATENT-CLASS-333-7
US-PATENT-CLASS-333-81R
US-PATENT-CLASS-333-98P
US-PATENT-CLASS-333-98R
US-PATENT-CLASS-333-98S
US-PATENT-3,649,935

N72-25171* c 07 ..... NASA-CASE-MFS-21042

US-PATENT-APPL-SN-86417
US-PATENT-CLASS-102-34.4
US-PATENT-CLASS-325-114
US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-6.5R
US-PATENT-3,667,044

N72-25172* c 07 ——— NASA-CASE-NPO-11358
US-PATENT-APPL-SN-116786
US-PATENT-CLASS-179-15BV
US-PATENT-CLASS-340-172.5
US-PATENT-3,665,417

N72-25173* c 07 ——— NASA-CASE-ERC-10324
US-PATENT-APPL-SN-54270
US-PATENT-CLASS-178-69.5
US-PATENT-CLASS-325-141
US-PATENT-CLASS-325-302
US-PATENT-CLASS-325-325
US-PATENT-CLASS-325-38
US-PATENT-CLASS-325-51
US-PATENT-CLASS-325-55
US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-64
US-PATENT-CLASS-340-167
US-PATENT-3,665,313

N72-25174* c 07 ——— NASA-CASE-NPO-11264
US-PATENT-APPL-SN-36531
US-PATENT-CLASS-343-762
US-PATENT-CLASS-343-777
US-PATENT-CLASS-343-779
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-853
US-PATENT-3,665,481

N72-25206* c 08 ——— NASA-CASE-KSC-10397
US-PATENT-APPL-SN-25488
US-PATENT-CLASS-235-154
US-PATENT-CLASS-340-347DA
US-PATENT-3,648,275

N72-25207* c 08 ——— NASA-CASE-NPO-11161
US-PATENT-APPL-SN-889374
US-PATENT-CLASS-340-146.1
US-PATENT-CLASS-340-172.5
US-PATENT-3,648,256

N72-25208* c 08 ——— NASA-CASE-NPO-11338
US-PATENT-APPL-SN-89212
US-PATENT-CLASS-178-50
US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-179-15FD
US-PATENT-CLASS-325-62
US-PATENT-CLASS-332-21
US-PATENT-3,659,053

N72-25209* c 08 ——— NASA-CASE-NPO-11194
US-PATENT-APPL-SN-63532
US-PATENT-CLASS-343-12R
US-PATENT-CLASS-343-14
US-PATENT-CLASS-343-6.5R
US-PATENT-3,659,292

N72-25210* c 08 ——— NASA-CASE-NPO-10636
US-PATENT-APPL-SN-77221
US-PATENT-CLASS-235-152
US-PATENT-CLASS-340-146.1AL
US-PATENT-3,662,337

N72-25247* c 09 ——— NASA-CASE-LAR-10163-1
US-PATENT-APPL-SN-73310
US-PATENT-CLASS-343-708
US-PATENT-CLASS-343-771
US-PATENT-CLASS-343-873
US-PATENT-3,653,052

N72-25248* c 09 ——— NASA-CASE-NPO-11342
US-PATENT-APPL-SN-69209
US-PATENT-CLASS-340-172.5
US-PATENT-CLASS-340-324A
US-PATENT-3,648,250

N72-25249* c 09 ——— NASA-CASE-GSC-10656-1
US-PATENT-APPL-SN-59969
US-PATENT-CLASS-321-2
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-323-17
US-PATENT-CLASS-323-22T
US-PATENT-3,621,372

N72-25250* c 09 ——— NASA-CASE-KSC-10565
US-PATENT-APPL-SN-98517
US-PATENT-CLASS-315-135
US-PATENT-CLASS-315-349
US-PATENT-CLASS-330-2
US-PATENT-CLASS-330-59
US-PATENT-CLASS-340-3C2
US-PATENT-3,659,148

N72-25251* c 09 ——— NASA-CASE-ERC-10048
US-PATENT-APPL-SN-10329
US-PATENT-CLASS-307-261
US-PATENT-CLASS-321-18
US-PATENT-CLASS-321-2
US-PATENT-3,659,184

N72-25252* c 09 ——— NASA-CASE-ERC-10268
US-PATENT-APPL-SN-39342
US-PATENT-CLASS-321-11
US-PATENT-CLASS-321-18
US-PATENT-CLASS-321-19
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45ER
US-PATENT-CLASS-321-45R
US-PATENT-3,663,940

N72-25253* c 09 ——— NASA-CASE-GSC-11126-1
US-PATENT-APPL-SN-98640
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-47
US-PATENT-CLASS-331-113A
US-PATENT-3,663,941

N72-25254* c 09 ——— NASA-CASE-NPO-10760
US-PATENT-APPL-SN-129071
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45R
US-PATENT-CLASS-331-113A
US-PATENT-3,663,944

N72-25255* c 09 ——— NASA-CASE-LAR-10620-1
US-PATENT-APPL-SN-125979
US-PATENT-CLASS-310-10
US-PATENT-CLASS-310-15
US-PATENT-3,663,843

N72-25256* c 09 ——— NASA-CASE-XLA-02609
US-PATENT-APPL-SN-41347
US-PATENT-CLASS-333-79
US-PATENT-CLASS-339-143R
US-PATENT-CLASS-339-147R
US-PATENT-3,663,929

N72-25257* c 09 ——— NASA-CASE-MSC-12395
US-PATENT-APPL-SN-134573
US-PATENT-CLASS-307-233
US-PATENT-CLASS-324-186
US-PATENT-CLASS-324-78D
US-PATENT-CLASS-328-136
US-PATENT-CLASS-328-140
US-PATENT-3,663,885

N72-25258* c 09 ——— NASA-CASE-LAR-10253-1
US-PATENT-APPL-SN-99175
US-PATENT-CLASS-307-88.3
US-PATENT-CLASS-330-4.5
US-PATENT-3,663,886

N72-25259* c 09 ——— NASA-CASE-GSC-10695-1
US-PATENT-APPL-SN-889422
US-PATENT-CLASS-117-200
US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-198
US-PATENT-3,664,874

N72-25260* c 09 ——— NASA-CASE-NPO-11283
US-PATENT-APPL-SN-118270
US-PATENT-CLASS-310-4
US-PATENT-3,663,839

N72-25261* c 09 ——— NASA-CASE-ERC-10224
US-PATENT-APPL-SN-868775
US-PATENT-CLASS-29-492
US-PATENT-CLASS-29-497
US-PATENT-CLASS-29-498
US-PATENT-CLASS-29-502
US-PATENT-CLASS-29-589
US-PATENT-CLASS-29-628
US-PATENT-3,665,569

N72-25262* c 09 ——— NASA-CASE-NPO-11078
US-PATENT-APPL-SN-82280
US-PATENT-CLASS-307-103
US-PATENT-CLASS-307-83
US-PATENT-CLASS-323-48
US-PATENT-CLASS-323-82
US-PATENT-3,663,828

N72-25284* c 11 ——— NASA-CASE-LAR-10507-1
US-PATENT-APPL-SN-874177
US-PATENT-CLASS-195-127
US-PATENT-3,649,462

N72-25287* c 11 ——— NASA-CASE-LAR-10546-1
US-PATENT-APPL-SN-32664
US-PATENT-CLASS-287-54A
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-655
US-PATENT-3,665,670

N72-25288* c 11 ——— NASA-CASE-MFS-20434
US-PATENT-APPL-SN-55534
US-PATENT-CLASS-73-140
US-PATENT-CLASS-73-161
US-PATENT-3,665,758

N72-25292* c 12 ——— NASA-CASE-NPO-11556
US-PATENT-APPL-SN-82648
US-PATENT-CLASS-210-188
US-PATENT-CLASS-310-11
US-PATENT-3,648,083

N72-25323* c 13 ——— NASA-CASE-NPO-11373
US-PATENT-APPL-SN-81095
US-PATENT-CLASS-73-421.5R
US-PATENT-CLASS-73-422GC
US-PATENT-CLASS-73-422TC
US-PATENT-3,662,604

N72-25409* c 14 ——— NASA-CASE-ERC-10174
US-PATENT-APPL-SN-39344
US-PATENT-CLASS-250-203
US-PATENT-CLASS-250-226
US-PATENT-CLASS-250-83.3UV
US-PATENT-CLASS-350-203
US-PATENT-3,657,548

N72-25410* c 14 ——— NASA-CASE-ERC-10292
US-PATENT-APPL-SN-45519
US-PATENT-CLASS-350-160R
US-PATENT-CLASS-73-515
US-PATENT-CLASS-73-521
US-PATENT-3,657,926

N72-25411* c 14 ——— NASA-CASE-MSC-15626-1
US-PATENT-APPL-SN-94374
US-PATENT-CLASS-118-114AH
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-482
US-PATENT-3,656,352

N72-25412* c 14 ——— NASA-CASE-MFS-15083
US-PATENT-APPL-SN-51477
US-PATENT-CLASS-178-DIG.8
US-PATENT-CLASS-178-6.8
US-PATENT-CLASS-340-227R
US-PATENT-3,659,043

N72-25413* c 14 ——— NASA-CASE-GSC-10879-1
US-PATENT-APPL-SN-869420
US-PATENT-CLASS-195-127
US-PATENT-3,666,631

N72-25414* c 14 ——— NASA-CASE-NPO-11311
US-PATENT-APPL-SN-57252
US-PATENT-CLASS-178-7.92
US-PATENT-CLASS-350-175S
US-PATENT-3,663,753

N72-25428* # c 14 ——— NASA-CASE-HQN-10756-1
US-PATENT-APPL-SN-236052

N72-25447* c 15 ——— NASA-CASE-LEW-10489-1
US-PATENT-APPL-SN-869682
US-PATENT-CLASS-117-107
US-PATENT-CLASS-117-211
US-PATENT-CLASS-117-217
US-PATENT-CLASS-117-62
US-PATENT-CLASS-117-93.1GD
US-PATENT-CLASS-29-599
US-PATENT-3,649,356

N72-25448* c 15 ——— NASA-CASE-LEW-10450-1
US-PATENT-APPL-SN-880271
US-PATENT-CLASS-75-0.5BB
US-PATENT-CLASS-75-206
US-PATENT-CLASS-75-213
US-PATENT-3,649,242

N72-25450* c 15 ——— NASA-CASE-NPO-11202
US-PATENT-APPL-SN-66004
US-PATENT-CLASS-285-DIG.21
US-PATENT-CLASS-285-3
US-PATENT-CLASS-285-316
US-PATENT-CLASS-285-33
US-PATENT-CLASS-339-45M
US-PATENT-CLASS-339-91R
US-PATENT-3,656,761

N72-25451* c 15 ——— NASA-CASE-NPO-10606
US-PATENT-APPL-SN-86361
US-PATENT-CLASS-251-360
US-PATENT-3,658,295

N72-25452* c 15 ——— NASA-CASE-LEW-10965-1
US-PATENT-APPL-SN-876586
US-PATENT-CLASS-117-124C
US-PATENT-CLASS-117-152
US-PATENT-CLASS-117-16R
US-PATENT-CLASS-117-37
US-PATENT-CLASS-117-47R
US-PATENT-CLASS-117-62
US-PATENT-CLASS-117-93.3
US-PATENT-CLASS-204-157.1BAG
US-PATENT-CLASS-204-49
US-PATENT-CLASS-250-65F
US-PATENT-CLASS-96-36.2
US-PATENT-3,658,569

N72-25453* c 15 ——— NASA-CASE-KSC-10513
US-PATENT-APPL-SN-61535
US-PATENT-CLASS-187-1
US-PATENT-CLASS-187-20
US-PATENT-CLASS-187-95
US-PATENT-CLASS-254-190
US-PATENT-3,666,051

N72-25454* c 15 ——— NASA-CASE-MSC-12233-1
US-PATENT-APPL-SN-73422
US-PATENT-CLASS-52-169
US-PATENT-CLASS-52-173
US-PATENT-CLASS-52-594
US-PATENT-3,665,669

N72-25455* c 15 ——— NASA-CASE-NPO-11085
US-PATENT-APPL-SN-19585
US-PATENT-CLASS-239-424
US-PATENT-CLASS-60-258
US-PATENT-CLASS-60-39.74A
US-PATENT-3,662,547

N72-25456* c 15 ——— NASA-CASE-NPO-11222

US-PATENT-APPL-SN-59893
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US-PATENT-CLASS-310-80
US-PATENT-CLASS-310-83
US-PATENT-3,660,704
N72-25457* c 15 NASA-CASE-ERC-10325
US-PATENT-APPL-SN-43884
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-158T
US-PATENT-3,665,307
N72-25485* c 16 NASA-CASE-ERC-10283
US-PATENT-APPL-SN-39185
US-PATENT-CLASS-331-94.5
US-PATENT-CLASS-332-7.51
US-PATENT-3,659,225
N72-25539* c 18 NASA-CASE-LEW-10424-2-2
US-PATENT-APPL-SN-15222
US-PATENT-CLASS-75-DIG.1
US-PATENT-CLASS-75-208
US-PATENT-CLASS-75-211
US-PATENT-CLASS-75-226
US PATENT-3,653,882
N72-25540* c 18 NASA-CASE-ERC-10364
US-PATENT-APPL-SN-55537
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US-PATENT-CLASS-161-68
US-PATENT-CLASS-161-7
US-PATENT-CLASS-52-DIG.10
US-PATENT-CLASS-52-80
US-PATENT-3,663,347
N72-25541* c 18 NASA-CASE-ERC-10365
US-PATENT-APPL-SN-57253
US-PATENT-CLASS-161-127
US-PATENT-CLASS-161-68
US-PATENT-CLASS-161-7
US-PATENT-CLASS-52-DIG.10
US-PATENT-CLASS-52-80
US-PATENT-3,663,346
N72-25595* c 21 NASA-CASE-MSC-13397-1
US-PATENT-APPL-SN-59966
US-PATENT-CLASS-244-1SA
US-PATENT-CLASS-244-23A
US-PATENT-3,662,973
N72-25619* c 23 NASA-CASE-NPO-10634
US-PATENT-APPL-SN-12999
US-PATENT-CLASS-62-475
US-PATENT-CLASS-62-6
US-PATENT-CLASS-62-60
US-PATENT-CLASS-62-85
US-PATENT-3,656,313
N72-25679* c 26 NASA-CASE-XER-07895
US-PATENT-APPL-SN-651627
US-PATENT-CLASS-317-234J
US-PATENT-CLASS-317-235A
US-PATENT-CLASS-317-235AJ
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-331-107G
US-PATENT-3,667,010
N72-25680* c 26 NASA-CASE-ERC-10275
US-PATENT-APPL-SN-47061
US-PATENT-CLASS-324-92
US-PATENT-CLASS-324-96
US-PATENT-CLASS-340-324R
US-PATENT-CLASS-350-150
US-PATENT-CLASS-350-160R
US-PATENT-3,667,039
N72-25699* c 27 NASA-CASE-NPO-12000
US-PATENT-APPL-SN-74861
US-PATENT-CLASS-149-19
US-PATENT-CLASS-149-20
US-PATENT-CLASS-149-36
US-PATENT-CLASS-149-92
US-PATENT-3,658,608
N72-25842* c 31 NASA-CASE-MSC-12372-1
US-PATENT-APPL-SN-64391
US-PATENT-CLASS-95-12.5
US-PATENT-3,662,661
N72-25877* c 32 NASA-CASE-LAR-10270-1
US-PATENT-APPL-SN-60681
US-PATENT-CLASS-73-100
US-PATENT-CLASS-73-15.6
US-PATENT-3,665,731
N72-25911* c 33 NASA-CASE-LEW-10359
US-PATENT-APPL-SN-47063
US-PATENT-CLASS-102-105
US-PATENT-CLASS-60-200A
US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-CLASS-62-467
US-PATENT-3,656,317
N72-25913* c 33 NASA-CASE-XMS-09690
US-PATENT-APPL-SN-853641
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US-PATENT-3,665,750
N72-26031* c 03 NASA-CASE-NPO-10753
US-PATENT-APPL-SN-844355

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US-PATENT-3,666,566
N72-26371* c 15 NASA-CASE-NPO-10244
US-PATENT-APPL-SN-43327
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US-PATENT-CLASS-73-136R
US-PATENT-3,664,185
N72-27053* c 03 NASA-CASE-GSC-10344-1
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US-PATENT-3,672,999
N72-27102* c 05 NASA-CASE-LAR-10365-1
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US-PATENT-CLASS-210-104
US-PATENT-CLASS-210-110
US-PATENT-CLASS-210-137
US-PATENT-3,670,890
N72-27103* c 05 NASA-CASE-MSC-13648
US-PATENT-APPL-SN-87222
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US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-417
US-PATENT-3,669,110
N72-27144* c 06 NASA-CASE-NPO-10768-2
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US-PATENT-APPL-SN-99524
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US-PATENT-CLASS-260-77.5AP
US-PATENT-3,671,497
N72-27151*# c 06 NASA-CASE-NPO-10767-2
US-PATENT-APPL-SN-241061
N72-27226* c 09 NASA-CASE-LEW-10330-1
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US-PATENT-CLASS-336-220
US-PATENT-CLASS-336-60
US-PATENT-3,648,209
N72-27227* c 09 NASA-CASE-KSC-10644
US-PATENT-APPL-SN-114849
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US-PATENT-CLASS-307-92
US-PATENT-CLASS-340-240
US-PATENT-3,673,424
N72-27228* c 09 NASA-CASE-NPO-10542
US-PATENT-APPL-SN-767741
US-PATENT-CLASS-310-4
US-PATENT-3,673,440
N72-27246* c 10 NASA-CASE-ERC-10015-2
US-PATENT-APPL-SN-763744
US-PATENT-APPL-SN-97343
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US-PATENT-CLASS-313-336
US-PATENT-CLASS-313-351
US-PATENT-CLASS-315-36
US-PATENT-3,671,798
N72-27262* c 11 NASA-CASE-MFS-20620
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US-PATENT-CLASS-73-432SD
US-PATENT-3,670,564
N72-27408* c 14 NASA-CASE-NPO-11147
US-PATENT-APPL-SN-63195
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US-PATENT-CLASS-328-189
US-PATENT-CLASS-331-44
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N72-27409* c 14 NASA-CASE-NPO-11201
US-PATENT-APPL-SN-77220
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US-PATENT-CLASS-250-225
US-PATENT-CLASS-350-147
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-3,670,168
N72-27410* c 14 NASA-CASE-XLE-05230
US-PATENT-APPL-SN-877717
US-PATENT-CLASS-136-233
US-PATENT-3,671,329
N72-27411* c 14 NASA-CASE-MSC-12293-1
US-PATENT-APPL-SN-59956
US-PATENT-CLASS-250-205
US-PATENT-CLASS-315-151
US-PATENT-CLASS-315-156
US-PATENT-CLASS-315-158
US-PATENT-CLASS-315-297
US-PATENT-CLASS-315-307
US-PATENT-CLASS-315-310
US-PATENT-CLASS-315-311
US-PATENT-3,670,202
N72-27412* c 14 NASA-CASE-MFS-20523
US-PATENT-APPL-SN-77786
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US-PATENT-CLASS-73-71.6
US-PATENT-3,670,563
N72-27484* c 15 NASA-CASE-NPO-10721

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US-PATENT-3,669,393
N72-27485* c 15 NASA-CASE-XLA-09843
US-PATENT-APPL-SN-60876
US-PATENT-CLASS-83-522
US-PATENT-CLASS-83-562
US-PATENT-CLASS-83-563
US-PATENT-CLASS-83-566
US-PATENT-CLASS-83-6
US-PATENT-3,668,956
N72-27728* c 23 NASA-CASE-ARC-10160-1
US-PATENT-APPL-SN-867842
US-PATENT-CLASS-178-DIG.20
US-PATENT-CLASS-178-6.5
US-PATENT-CLASS-350-138
US-PATENT-3,670,097
N72-27784* c 26 NASA-CASE-LAR-10836-1
US-PATENT-APPL-SN-138227
US-PATENT-CLASS-350-161
US-PATENT-3,671,105
N72-27959* c 33 NASA-CASE-LAR-10800-1
US-PATENT-APPL-SN-154094
US-PATENT-CLASS-73-35
US-PATENT-3,670,559
N72-28025* c 03 NASA-CASE-NPO-10633
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US-PATENT-CLASS-165-20
US-PATENT-CLASS-165-3
US-PATENT-CLASS-62-93
US-PATENT-3,675,712
N72-28225* c 09 NASA-CASE-MFS-20757
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US-PATENT-CLASS-339-176MF
US-PATENT-CLASS-339-218M
US-PATENT-CLASS-339-75MP
US-PATENT-CLASS-339-94M
US-PATENT-3,670,290
N72-28240* c 10 NASA-CASE-ARC-10265-1
US-PATENT-APPL-SN-64709
US-PATENT-CLASS-324-41
US-PATENT-CLASS-340-258
US-PATENT-3,676,772
N72-28241* c 10 NASA-CASE-GSC-10786-1
US-PATENT-APPL-SN-773072
US-PATENT-CLASS-330-29
US-PATENT-3,533,006
N72-28436* c 14 NASA-CASE-XLA-06683
US-PATENT-APPL-SN-10827
US-PATENT-CLASS-33-1SA
US-PATENT-CLASS-33-75R
US-PATENT-3,675,332
N72-28437* c 14 NASA-CASE-ERC-10081
US-PATENT-APPL-SN-87799
US-PATENT-CLASS-325-363
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-112D
US-PATENT-CLASS-73-355
US-PATENT-3,665,467
N72-28438* c 14 NASA-CASE-XLA-04990-2
US-PATENT-APPL-SN-577548
US-PATENT-APPL-SN-763040
US-PATENT-CLASS-148-187
US-PATENT-3,549,435
N72-28495* c 15 NASA-CASE-MFS-14405
US-PATENT-APPL-SN-73283
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-74-469
US-PATENT-3,631,737
N72-28496* c 15 NASA-CASE-MFS-20433
US-PATENT-APPL-SN-114847
US-PATENT-CLASS-52-1
US-PATENT-CLASS-52-573
US-PATENT-3,675,376
N72-28521* c 16 NASA-CASE-NPO-11437
US-PATENT-APPL-SN-63144
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-3,676,787
N72-28535* c 17 NASA-CASE-XLE-06461-2
US-PATENT-APPL-SN-156778
US-PATENT-APPL-SN-853855
US-PATENT-CLASS-266-24
US PATENT-3,675,910
N72-28536* c 17 NASA-CASE-XLE-03940-2
US-PATENT-APPL-SN-539255
US-PATENT-APPL-SN-793657
US-PATENT-CLASS-29-182.5
US-PATENT-3,676,084
N72-28761* c 26 NASA-CASE-NPO-11775
US-PATENT-APPL-SN-162230
US-PATENT-CLASS-29-570
US-PATENT-CLASS-317-230
US-PATENT-CLASS-317-261
US-PATENT-3,676,754
N72-28762* c 26 NASA-CASE-LAR-10294-1

N72-29172

US-PATENT-APPL-SN-796685
US-PATENT-CLASS-106-39
US-PATENT-CLASS-106-46
US-PATENT-CLASS-117-212
US-PATENT-CLASS-117-217
US-PATENT-CLASS-29-25.42
US-PATENT-3,649,353

N72-29172* c 09 ..... NASA-CASE-LAR-10511-1
US-PATENT-APPL-SN-41345
US-PATENT-CLASS-333-24R
US-PATENT-CLASS-333-98P
US-PATENT-CLASS-333-98R
US-PATENT-3,676,809

N72-29464* c 14 ..... NASA-CASE-ARC-10017-1
US-PATENT-APPL-SN-55536
US-PATENT-CLASS-250-41.9D
US-PATENT-CLASS-250-71.5R
US-PATENT-CLASS-313-356
US-PATENT-3,676,674

N72-29488* c 15 ..... NASA-CASE-XLE-10326-2
US-PATENT-APPL-SN-54540
US-PATENT-APPL-SN-723465
US-PATENT-CLASS-277-25
US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-74
US-PATENT-3,675,935

N72-31140* c 06 ..... NASA-CASE-MSC-13335-1
US-PATENT-APPL-SN-55806
US-PATENT-CLASS-55-16
US-PATENT-CLASS-55-55
US-PATENT-3,678,654

N72-31141* c 06 ..... NASA-CASE-ARC-10308-1
US-PATENT-APPL-SN-134568
US-PATENT-CLASS-250-43.5R
US-PATENT-CLASS-356-51
US-PATENT-3,679,899

N72-31226* c 08 ..... NASA-CASE-NPO-11016
US-PATENT-APPL-SN-889584
US-PATENT-CLASS-235-150.1
US-PATENT-CLASS-235-151.1
US-PATENT-CLASS-235-92MT
US-PATENT-CLASS-323-19
US-PATENT-CLASS-340-347AD
US-PATENT-3,681,581

N72-31235* c 09 ..... NASA-CASE-ERC-10214
US-PATENT-APPL-SN-963914
US-PATENT-CLASS-343-770
US-PATENT-CLASS-343-771
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-853
US-PATENT-3,680,142

N72-31273* c 10 ..... NASA-CASE-KSC-10647-1
US-PATENT-APPL-SN-774691
US-PATENT-CLASS-178-7.5E
US-PATENT-CLASS-315-22R
US-PATENT-CLASS-315-30R
US-PATENT-CLASS-330-27R
US-PATENT-3,678,191

N72-31446* c 14 ..... NASA-CASE-ERC-10067-2
US-PATENT-APPL-SN-738315
US-PATENT-APPL-SN-91642
US-PATENT-CLASS-29-588
US-PATENT-CLASS-317-234D
US-PATENT-CLASS-317-234G
US-PATENT-CLASS-317-235M
US-PATENT-CLASS-317-235R
US-PATENT-3,686,542

N72-31483* c 15 ..... NASA-CASE-LAR-10061-1
US-PATENT-APPL-SN-104047
US-PATENT-CLASS-251-331
US-PATENT-CLASS-251-86
US-PATENT-3,680,830

N72-31637* c 21 ..... NASA-CASE-GSC-10945-1
US-PATENT-APPL-SN-75431
US-PATENT-CLASS-60-23
US-PATENT-CLASS-60-26
US-PATENT-3,678,685

N72-32169* c 07 ..... NASA-CASE-NPO-11361
US-PATENT-APPL-SN-112988
US-PATENT-CLASS-343-781
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-840
US-PATENT-CLASS-343-915
US-PATENT-3,680,144

N72-32452* c 14 ..... NASA-CASE-MFS-15162
US-PATENT-APPL-SN-100639
US-PATENT-CLASS-350-79
US-PATENT-CLASS-356-241
US-PATENT-3,694,094

N72-32487* c 15 ..... NASA-CASE-LAR-10541-1
US-PATENT-APPL-SN-136229
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US-PATENT-CLASS-204-298
US-PATENT-CLASS-219-121P
US-PATENT-CLASS-219-273
US-PATENT-3,690,291

N72-32688* c 25 ..... NASA-CASE-MFS-20589
US-PATENT-APPL-SN-103077
US-PATENT-CLASS-313-231
US-PATENT-CLASS-315-111
US-PATENT-3,693,002

N72-33072* c 04 ..... NASA-CASE-ERC-10338
US-PATENT-APPL-SN-50339
US-PATENT-CLASS-23-109
US-PATENT-3,679,360

N72-33096* c 05 ..... NASA-CASE-MSC-13540-1
US-PATENT-APPL-SN-66023
US-PATENT-CLASS-99-80PS
US-PATENT-3,692,533

N72-33146* c 07 ..... NASA-CASE-MSC-12259-2
US-PATENT-APPL-SN-61895
US-PATENT-APPL-SN-853763
US-PATENT-CLASS-325-373
US-PATENT-3,694,753

N72-33172* c 08 ..... NASA-CASE-NPO-11630
US-PATENT-APPL-SN-143078
US-PATENT-CLASS-179-15.55R
US-PATENT-3,694,581

N72-33204* c 09 ..... NASA-CASE-NPO-11129
US-PATENT-APPL-SN-883523
US-PATENT-CLASS-307-262
US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-155
US-PATENT-CLASS-328-24
US-PATENT-3,621,406

N72-33205* c 09 ..... NASA-CASE-GSC-10835-1
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US-PATENT-CLASS-317-235
US-PATENT-CLASS-317-235A
US-PATENT-CLASS-317-235AJ
US-PATENT-3,694,700

N72-33230* c 10 ..... NASA-CASE-GSC-11340-1
US-PATENT-APPL-SN-107379
US-PATENT-CLASS-330-12
US-PATENT-CLASS-331-115
US-PATENT-CLASS-331-116R
US-PATENT-CLASS-333-80T
US-PATENT-3,693,105

N72-33377* c 14 ..... NASA-CASE-MFS-20760
US-PATENT-APPL-SN-99174
US-PATENT-CLASS-73-141AB
US-PATENT-CLASS-73-85
US-PATENT-3,693,418

N72-33476* c 15 ..... NASA-CASE-XGS-07805
US-PATENT-APPL-SN-104884
US-PATENT-CLASS-308-10
US-PATENT-3,694,041

N72-33477* c 15 ..... NASA-CASE-NPO-11340
US-PATENT-APPL-SN-147997
US-PATENT-CLASS-137-13
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-60-1
US-PATENT-CLASS-60-36
US-PATENT-3,693,346

N72-33681* c 24 ..... NASA-CASE-LEW-10518-1
US-PATENT-APPL-SN-863280
US-PATENT-CLASS-176-11
US-PATENT-3,694,313

N72-33696* c 25 ..... NASA-CASE-GSC-11291-1
US-PATENT-APPL-SN-102412
US-PATENT-CLASS-250-83.6R
US-PATENT-3,694,655

N73-12175* c 08 ..... NASA-CASE-NPO-11406
US-PATENT-APPL-SN-95183
US-PATENT-CLASS-235-152
US-PATENT-CLASS-331-78
US-PATENT-CLASS-340-146.1AL
US-PATENT-3,700,869

N73-12176* c 08 ..... NASA-CASE-KSC-10595
US-PATENT-APPL-SN-98772
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US-PATENT-CLASS-340-347DD
US-PATENT-3,697,733

N73-12177* c 08 ..... NASA-CASE-NPO-11371
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US-PATENT-CLASS-340-146.1AV
US-PATENT-3,697,950

N73-12211* c 09 ..... NASA-CASE-ERC-10412-1
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US-PATENT-CLASS-343-11VB
US-PATENT-CLASS-343-5DP
US-PATENT-3,696,418

N73-12214*# c 09 ..... NASA-CASE-NPO-13091-1
US-PATENT-APPL-SN-290022

N73-12244* c 10 ..... NASA-CASE-NPO-11631
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US-PATENT-CLASS-325-473
US-PATENT-CLASS-325-480
US-PATENT-3,700,812

N73-12264* c 11 ..... NASA-CASE-LAR-10348-1
US-PATENT-APPL-SN-70032
US-PATENT-CLASS-73-147
US-PATENT-3,695,101

N73-12265* c 11 ..... NASA-CASE-NPO-10890
US-PATENT-APPL-SN-99903
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US-PATENT-CLASS-219-203
US-PATENT-CLASS-219-522
US-PATENT-CLASS-52-171
US-PATENT-3,696,833

N73-12444* c 14 ..... NASA-CASE-GSC-10803-1
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US-PATENT-CLASS-250-41.9S
US-PATENT-CLASS-73-421.5
US-PATENT-3,700,893

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US-PATENT-CLASS-250-83.3R
US-PATENT-CLASS-250-83R
US-PATENT-3,700,897

N73-12446* c 14 ..... NASA-CASE-NPO-11239
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US-PATENT-CLASS-356-114
US-PATENT-3,700,334

N73-12447* c 14 ..... NASA-CASE-NPO-11493
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US-PATENT-CLASS-136-224
US-PATENT-3,700,503

N73-12486* c 15 ..... NASA-CASE-KSC-10615
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US-PATENT-CLASS-244-135
US-PATENT-CLASS-62-45
US-PATENT-CLASS-62-7
US-PATENT-3,697,021

N73-12487* c 15 ..... NASA-CASE-FRC-10019
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US-PATENT-CLASS-204-192
US-PATENT-3,700,575

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US-PATENT-CLASS-308-2A
US-PATENT-CLASS-74-5F
US-PATENT-3,700,291

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US-PATENT-CLASS-264-28
US-PATENT-CLASS-264-36
US-PATENT-CLASS-264-40
US-PATENT-3,697,630

N73-12492*# c 15 ..... NASA-CASE-XLA-08914
US-PATENT-APPL-SN-810576

N73-12495*# c 15 ..... NASA-CASE-NPO-13086-1
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N73-12547* c 17 ..... NASA-CASE-LAR-10539-1
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US-PATENT-CLASS-23-230R
US-PATENT-3,701,631

N73-12604* c 18 ..... NASA-CASE-MFS-20408
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US-PATENT-CLASS-161-93
US-PATENT-3,700,538

N73-12884* c 30 ..... NASA-CASE-MSC-12391
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US-PATENT-CLASS-244-155
US-PATENT-3,700,193

N73-13008* c 02 ..... NASA-CASE-GSC-11077-1
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US-PATENT-CLASS-244-32
US-PATENT-3,698,667

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US-PATENT-CLASS-128-2N
US-PATENT-CLASS-273-1E
US-PATENT-CLASS-35-22R
US-PATENT-3,698,385

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US-PATENT-3,702,775

N73-13129* c 06 ..... NASA-CASE-XNP-08124-2
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US-PATENT-3,702,762

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US-PATENT-CLASS-235-150.5

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US-PATENT-CLASS-325-325
US-PATENT-CLASS-340-146.1
US-PATENT-3,701,894
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US-PATENT-CLASS-340-172.5
US-PATENT-3,702,463
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US-PATENT-CLASS-315-5.38
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N73-13209* c 09 ..... NASA-CASE-XLA-05099
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US-PATENT-CLASS-307-207
US-PATENT-CLASS-307-215
US-PATENT-3,700,866
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US-PATENT-CLASS-178-6
US-PATENT-CLASS-307-242
US-PATENT-CLASS-307-259
US-PATENT-CLASS-326-104
US-PATENT-CLASS-326-54
US-PATENT-3,702,896
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N73-13415* c 14 ..... NASA-CASE-LAR-10655-1
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US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-212
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US-PATENT-APPL-SN-877717
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US-PATENT-CLASS-29-573
US-PATENT-CLASS-29-624
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N73-13418* c 14 ..... NASA-CASE-MFS-14216
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US-PATENT-CLASS-137-81
US-PATENT-CLASS-92-49
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US-PATENT-CLASS-333-98R
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N73-13435*# c 14 ..... NASA-CASE-GSC-11533-1
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US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-138-45
US-PATENT-CLASS-251-122
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US-PATENT-CLASS-72-447
US-PATENT-CLASS-72-476
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US-PATENT-CLASS-425-133
US-PATENT-CLASS-425-176
US-PATENT-CLASS-72-258
US-PATENT-3,698,848
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US-PATENT-APPL-SN-148756
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US-PATENT-CLASS-91-448
US-PATENT-3,702,575
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US-PATENT-CLASS-60-23
US-PATENT-CLASS-60-37
US-PATENT-3,702,532
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US-PATENT-CLASS-331-94
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N73-13562* c 18 ..... NASA-CASE-ARC-10196-1
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US-PATENT-CLASS-260-2.5F
US-PATENT-3,702,841
N73-13643* c 21 ..... NASA-CASE-HQN-10703
US-PATENT-APPL-SN-156724
US-PATENT-CLASS-340-27NA
US-PATENT-CLASS-340-33
US-PATENT-CLASS-340-97
US-PATENT-CLASS-343-112CA
US-PATENT-3,699,511
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US-PATENT-CLASS-340-174.1R
US-PATENT-CLASS-346-138
US-PATENT-CLASS-346-74MD
US-PATENT-CLASS-74-5.22
US-PATENT-3,697,968
N73-13660* c 23 ..... NASA-CASE-MFS-20809
US-PATENT-APPL-SN-173185
US-PATENT-CLASS-315-169R
US-PATENT-CLASS-315-169TV
US-PATENT-CLASS-317-101A
US-PATENT-3,700,961
N73-13661* c 23 ..... NASA-CASE-MSC-12404-1
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US-PATENT-CLASS-356-106S
US-PATENT-3,702,735
N73-13662* c 23 ..... NASA-CASE-MFS-20243
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US-PATENT-CLASS-250-52
US-PATENT-3,702,933
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US-PATENT-CLASS-60-211
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-243
US-PATENT-3,702,536
N73-13898* c 31 ..... NASA-CASE-LAR-10549-1
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US-PATENT-CLASS-60-291
US-PATENT-3,700,192
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US-PATENT-CLASS-52-284
US-PATENT-CLASS-52-594
US-PATENT-3,702,520
N73-14130* c 07 ..... NASA-CASE-NPO-11661
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US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-915
US-PATENT-3,705,406
N73-14214* c 09 ..... NASA-CASE-ARC-10467-1
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US-PATENT-CLASS-250-211J
US-PATENT-CLASS-250-217SS
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US-PATENT-CLASS-307-311
US-PATENT-3,705,316
N73-14427* c 14 ..... NASA-CASE-NPO-10758
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US-PATENT-CLASS-352-169
US-PATENT-CLASS-95-12.5
US-PATENT-CLASS-95-59
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N73-14428* c 14 ..... NASA-CASE-NPO-10764-1
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US-PATENT-CLASS-252-408
US-PATENT-3,700,603
N73-14429* c 14 ..... NASA-CASE-NPO-11387
US-PATENT-APPL-SN-142719
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US-PATENT-CLASS-73-60
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N73-14468* c 15 ..... NASA-CASE-LAR-10103-1
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US-PATENT-CLASS-219-101
US-PATENT-CLASS-219-119
US-PATENT-CLASS-29-203V
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N73-14469* c 15 ..... NASA-CASE-GSC-10791-1
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US-PATENT-CLASS-29-589
US-PATENT-CLASS-29-591
US-PATENT-CLASS-317-234A
US-PATENT-CLASS-317-234G
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N73-14584* c 18 ..... NASA-CASE-LAR-10894-1
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US-PATENT-CLASS-106-55
US-PATENT-CLASS-106-58
US-PATENT-CLASS-106-63
US-PATENT-CLASS-264-DIG.36
US-PATENT-CLASS-264-65
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N73-14692* c 21 ..... NASA-CASE-ERC-10392
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US-PATENT-CLASS-340-27AT
US-PATENT-3,706,970
N73-14853* c 31 ..... NASA-CASE-GSC-10590-1
US-PATENT-APPL-SN-130353
US-PATENT-CLASS-102-49.5
US-PATENT-3,706,281
N73-14854* c 31 ..... NASA-CASE-MSC-12433
US-PATENT-APPL-SN-103551
US-PATENT-CLASS-244-155
US-PATENT-3,702,688
N73-14855* c 31 ..... NASA-CASE-NPO-10680
US-PATENT-APPL-SN-104048
US-PATENT-CLASS-74-2
US-PATENT-3,706,230
N73-15235* c 09 ..... NASA-CASE-NPO-12106
US-PATENT-APPL-SN-175881
US-PATENT-CLASS-317-234V
US-PATENT-CLASS-317-235AG
US-PATENT-CLASS-317-235K
US-PATENT-CLASS-331-107G
US-PATENT-CLASS-331-177R
US-PATENT-CLASS-331-90
US-PATENT-3,694,771
N73-16106* c 06 ..... NASA-CASE-LAR-10668-1
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US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-23-254E
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-250-71R
US-PATENT-CLASS-250-83.3UV
US-PATENT-3,709,663
N73-16121* c 07 ..... NASA-CASE-NPO-11572
US-PATENT-APPL-SN-125234
US-PATENT-CLASS-179-15AN
US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-325-60
US-PATENT-CLASS-343-200
US-PATENT-3,710,257
N73-16205* c 10 ..... NASA-CASE-NPO-11282
US-PATENT-APPL-SN-101354
US-PATENT-CLASS-325-346
US-PATENT-CLASS-325-419
US-PATENT-3,710,261
N73-16206* c 10 ..... NASA-CASE-ERC-10285
US-PATENT-APPL-SN-55333
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US-PATENT-CLASS-343-100R
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-853
US-PATENT-3,710,329
N73-16483* c 14 ..... NASA-CASE-ERC-10226-1
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US-PATENT-APPL-SN-808822
US-PATENT-CLASS-250-209
US-PATENT-CLASS-250-215
US-PATENT-CLASS-250-217
US-PATENT-CLASS-315-153
US-PATENT-CLASS-340-25
US-PATENT-CLASS-340-27R
US-PATENT-3,708,671
N73-16484* c 14 ..... NASA-CASE-LAR-10739-1
US-PATENT-APPL-SN-134567
US-PATENT-CLASS-250-217F
US-PATENT-CLASS-340-228S
US-PATENT-CLASS-340-418
US-PATENT-3,708,674
N73-16536* c 16 ..... NASA-CASE-LAR-10311-1
US-PATENT-APPL-SN-31702
US-PATENT-CLASS-250-199
US-PATENT-CLASS-340-171
US-PATENT-CLASS-350-293
US-PATENT-3,710,122
N73-16764* c 27 ..... NASA-CASE-NPO-12015
US-PATENT-APPL-SN-74862
US-PATENT-CLASS-149-19
US-PATENT-CLASS-149-36
US-PATENT-3,708,359
N73-16918* c 33 ..... NASA-CASE-MSC-15567-1

US-PATENT-APPL-SN-87551
US-PATENT-CLASS-204-324
US-PATENT-CLASS-204-325
US-PATENT-CLASS-204-326
US-PATENT-3,706,419

N73-19004* c 02 ..... NASA-CASE-ERC-10439
US-PATENT-APPL-SN-54271
US-PATENT-CLASS-244-17.13
US-PATENT-CLASS-244-77D
US-PATENT-CLASS-318-489
US-PATENT-3,711,042

N73-19234* c 09 ..... NASA-CASE-GSC-11013-1
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US-PATENT-CLASS-343-839
US-PATENT-CLASS-343-854
US-PATENT-CLASS-343-895
US-PATENT-3,713,163

N73-19235* c 09 ..... NASA-CASE-MFS-20407
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US-PATENT-CLASS-317-235N
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-317-235T
US-PATENT-CLASS-317-235UA
US-PATENT-3,714,526

N73-19419* c 14 ..... NASA-CASE-LAR-10226-1
US-PATENT-APPL-SN-98774
US-PATENT-CLASS-250-217R
US-PATENT-CLASS-95-11.5R
US-PATENT-CLASS-95-11R
US-PATENT-3,712,195

N73-19420* c 14 ..... NASA-CASE-MFS-20774
US-PATENT-APPL-SN-161028
US-PATENT-CLASS-73-84
US-PATENT-3,712,121

N73-19421* c 14 ..... NASA-CASE-MFS-20242
US-PATENT-APPL-SN-213004
US-PATENT-CLASS-73-71.6
US-PATENT-3,712,120

N73-19457* c 15 ..... NASA-CASE-MFS-20696-2
US-PATENT-APPL-SN-136086
US-PATENT-APPL-SN-3418
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-625
US-PATENT-3,714,332

N73-19458* c 15 ..... NASA-CASE-LAR-10195-1
US-PATENT-APPL-SN-201782
US-PATENT-CLASS-259-4
US-PATENT-3,712,591

N73-19630*# c 21 ..... NASA-CASE-GSC-11188-2
US-PATENT-APPL-SN-244440

N73-19793* c 28 ..... NASA-CASE-LEW-11187-1
US-PATENT-APPL-SN-147922
US-PATENT-CLASS-60-39.28R
US-PATENT-3,713,290

N73-20039* c 03 ..... NASA-CASE-GSC-10614-1
US-PATENT-APPL-SN-41404
US-PATENT-CLASS-244-1SA
US-PATENT-CLASS-244-1SS
US-PATENT-3,715,092

N73-20040* c 03 ..... NASA-CASE-NPO-11771
US-PATENT-APPL-SN-200762
US-PATENT-CLASS-244-1.55
US-PATENT-CLASS-250-212
US-PATENT-CLASS-250-234
US-PATENT-CLASS-60-26
US-PATENT-3,715,600

N73-20137* c 05 ..... NASA-CASE-LAR-10076-1
US-PATENT-APPL-SN-84290
US-PATENT-CLASS-165-46
US-PATENT-CLASS-312-1
US-PATENT-CLASS-62-259
US-PATENT-3,713,480

N73-20174* c 07 ..... NASA-CASE-GSC-10087-4
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US-PATENT-APPL-SN-701679
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US-PATENT-CLASS-325-17
US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-5
US-PATENT-CLASS-325-63
US-PATENT-CLASS-325-7
US-PATENT-CLASS-325-8
US-PATENT-CLASS-325-9
US-PATENT-CLASS-343-179
US-PATENT-3,715,663

N73-20175* c 07 ..... NASA-CASE-KSC-10698
US-PATENT-APPL-SN-213949
US-PATENT-CLASS-324-72
US-PATENT-CLASS-73-170R
US-PATENT-3,715,660

N73-20176* c 07 ..... NASA-CASE-KSC-10521
US-PATENT-APPL-SN-212921
US-PATENT-CLASS-340-146.1C
US-PATENT-CLASS-340-147R
US-PATENT-CLASS-340-163
US-PATENT-3,715,723

N73-20217* c 08 ..... NASA-CASE-LAR-10128-1
US-PATENT-APPL-SN-84002
US-PATENT-CLASS-235-92FQ
US-PATENT-CLASS-235-92R
US-PATENT-CLASS-235-92T
US-PATENT-CLASS-340-347AD
US-PATENT-3,714,645

N73-20231* c 09 ..... NASA-CASE-ARC-10264-1
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US-PATENT-CLASS-328-167
US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-86
US-PATENT-3,714,588

N73-20232* c 09 ..... NASA-CASE-MFS-21433
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US-PATENT-CLASS-307-304
US-PATENT-CLASS-330-20
US-PATENT-CLASS-330-22
US-PATENT-CLASS-330-30D
US-PATENT-CLASS-330-35
US-PATENT-CLASS-330-40
US-PATENT-CLASS-330-60T
US-PATENT-3,715,693

N73-20253* c 10 ..... NASA-CASE-LAR-10310-1
US-PATENT-APPL-SN-147103
US-PATENT-CLASS-235-197
US-PATENT-3,714,405

N73-20254* c 10 ..... NASA-CASE-NPO-11868
US-PATENT-APPL-SN-192101
US-PATENT-CLASS-307-221R
US-PATENT-CLASS-328-187
US-PATENT-CLASS-328-37
US-PATENT-CLASS-328-61
US-PATENT-3,716,863

N73-20267* c 11 ..... NASA-CASE-MFS-21362
US-PATENT-APPL-SN-211411
US-PATENT-CLASS-73-432SD
US-PATENT-3,714,833

N73-20474* c 14 ..... NASA-CASE-ERC-10350
US-PATENT-APPL-SN-55535
US-PATENT-CLASS-340-27R
US-PATENT-3,714,824

N73-20475* c 14 ..... NASA-CASE-LAR-10726-1
US-PATENT-APPL-SN-146935
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US-PATENT-CLASS-250-83.3H
US-PATENT-3,714,432

N73-20476* c 14 ..... NASA-CASE-MFS-20673
US-PATENT-APPL-SN-94049
US-PATENT-CLASS-73-90
US-PATENT-CLASS-73-91
US-PATENT-3,714,821

N73-20477* c 14 ..... NASA-CASE-ARC-10443-1
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US-PATENT-CLASS-250-83.3R
US-PATENT-CLASS-250-83R
US-PATENT-3,715,590

N73-20478* c 14 ..... NASA-CASE-NPO-10985
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US-PATENT-CLASS-324-30R
US-PATENT-CLASS-324-65P
US-PATENT-CLASS-73-194E
US-PATENT-3,712,132

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US-PATENT-CLASS-195-127
US-PATENT-3,713,987

N73-20740* c 32 ..... NASA-CASE-LAR-10765-1
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US-PATENT-CLASS-73-88A
US-PATENT-3,715,915

N73-20741* c 23 ..... NASA-CASE-ARC-10194-1
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US-PATENT-3,715,152

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US-PATENT-APPL-SN-192603

N73-22710* c 27 ..... NASA-CASE-NPO-10893
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US-PATENT-CLASS-260-94.8
US-PATENT-3,634,383

N73-24176* c 07 ..... NASA-CASE-NPO-11751
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US-PATENT-CLASS-343-915
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US-PATENT-CLASS-136-225
US-PATENT-3,729,343

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US-PATENT-CLASS-324-78E
US-PATENT-3,729,676

N73-24513* c 15 ..... NASA-CASE-NPO-11417
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US-PATENT-CLASS-60-25
US-PATENT-3,732,040

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US-PATENT-CLASS-204-192
US-PATENT-3,732,158

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US-PATENT-CLASS-313-231
US-PATENT-CLASS-313-63
US-PATENT-CLASS-60-202
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US-PATENT-3,728,861

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US-PATENT-CLASS-102-49.8
US-PATENT-CLASS-60-254
US-PATENT-CLASS-60-256
US-PATENT-3,729,935

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US-PATENT-APPL-SN-869260
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US-PATENT-CLASS-2-2.1A
US-PATENT-3,720,208

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US-PATENT-APPL-SN-766662
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US-PATENT-CLASS-325-139
US-PATENT-CLASS-325-45
US-PATENT-CLASS-325-61
US-PATENT-CLASS-340-207
US-PATENT-CLASS-340-258R
US-PATENT-3,719,891

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US-PATENT-CLASS-343-6.8R
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US-PATENT-CLASS-235-151.27
US-PATENT-CLASS-235-92CV
US-PATENT-CLASS-235-92DN
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US-PATENT-CLASS-235-92R
US-PATENT-3,729,129

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US-PATENT-CLASS-235-151.31
US-PATENT-CLASS-324-77R
US-PATENT-CLASS-324-78J
US-PATENT-3,732,405

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US-PATENT-CLASS-325-67
US-PATENT-3,737,781

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US-PATENT-CLASS-317-101DH
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US-PATENT-CLASS-73-189
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US-PATENT-CLASS-250-214
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US-PATENT-CLASS-250-83.3H

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US-PATENT-CLASS-254-156
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US-PATENT-CLASS-313-231
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US-PATENT-APPL-SN-47063
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US-PATENT-CLASS-244-117A
US-PATENT-CLASS-60-200A
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US-PATENT-CLASS-60-257
US-PATENT-CLASS-62-467
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US-PATENT-CLASS-244-76C
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US-PATENT-CLASS-244-77G
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US-PATENT-CLASS-244-46
US-PATENT-CLASS-244-55
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US-PATENT-CLASS-9-2A
US-PATENT-CLASS-9-3
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US-PATENT-CLASS-62-176
US-PATENT-CLASS-62-207
US-PATENT-CLASS-62-209
US-PATENT-CLASS-62-259
US-PATENT-CLASS-62-89
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US-PATENT-CLASS-351-30
US-PATENT-CLASS-351-36
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US-PATENT-CLASS-343-883
US-PATENT-CLASS-343-889
US-PATENT-CLASS-343-895
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US-PATENT-CLASS-179-15BM
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US-PATENT-CLASS-343-204
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US-PATENT-CLASS-331-94.5
US-PATENT-CLASS-332-7.51
US-PATENT-CLASS-356-4
US-PATENT-CLASS-356-5

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US-PATENT-CLASS-235-164
US-PATENT-CLASS-328-167
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US-PATENT-CLASS-333-73S
US-PATENT-CLASS-333-82A
US-PATENT-CLASS-333-84M
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US-PATENT-CLASS-321-45C
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US-PATENT-CLASS-235-194
US-PATENT-CLASS-235-197
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US-PATENT-CLASS-180-6.5
US-PATENT-CLASS-180-7R
US-PATENT-CLASS-180-8A
US-PATENT-CLASS-180-9.2R
US-PATENT-CLASS-180-9.5
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US-PATENT-CLASS-305-39
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US-PATENT-CLASS-343-100ME
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US-PATENT-CLASS-137-582
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US-PATENT-CLASS-356-161
US-PATENT-CLASS-356-202
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US-PATENT-CLASS-29-599
US-PATENT-CLASS-336-DIG.1
US-PATENT-CLASS-336-200
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US-PATENT-CLASS-244-137P
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US-PATENT-CLASS-73-91

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US-PATENT-CLASS-32-58
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US-PATENT-APPL-SN-868775
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US-PATENT-CLASS-317-234L
US-PATENT-CLASS-317-234M
US-PATENT-CLASS-317-234N
US-PATENT-CLASS-317-234R
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US-PATENT-CLASS-53-22A
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US-PATENT-CLASS-313-63
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US-PATENT-CLASS-128-2.06R
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US-PATENT-CLASS-161-214
US-PATENT-CLASS-161-227
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US-PATENT-CLASS-260-30.8DS
US-PATENT-CLASS-260-32.6N
US-PATENT-CLASS-260-33.4R
US-PATENT-CLASS-260-33.6R
US-PATENT-CLASS-260-47CP
US-PATENT-CLASS-260-65
US-PATENT-CLASS-260-78TF
US-PATENT-CLASS-260-78UA
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US-PATENT-CLASS-343-893
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US-PATENT-CLASS-29-629
US-PATENT-CLASS-29-630
US-PATENT-CLASS-29-630A
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US-PATENT-3,402,265
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US-PATENT-CLASS-73-15R
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US-PATENT-APPL-SN-97472
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US-PATENT-CLASS-307-306
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US-PATENT-CLASS-34-160
US-PATENT-CLASS-34-162
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US-PATENT-CLASS-250-209
US-PATENT-CLASS-250-214R
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US-PATENT-CLASS-29-497.5
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US-PATENT-CLASS-149-36
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US-PATENT-CLASS-252-305
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US-PATENT-APPL-SN-606036
US-PATENT-CLASS-260-77.5
US-PATENT-3,463,762
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US-PATENT-CLASS-324-95
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US-PATENT-CLASS-260-93.5S
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US-PATENT-CLASS-117-160R
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US-PATENT-CLASS-356-153
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US-PATENT-CLASS-235-92DM
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US-PATENT-CLASS-219-107
US-PATENT-CLASS-219-78
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US-PATENT-CLASS-29-498
US-PATENT-CLASS-29-503
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US-PATENT-CLASS-23-252R
US-PATENT-CLASS-23-261
US-PATENT-CLASS-23-288F
US-PATENT-CLASS-23-288J
US-PATENT-CLASS-423-231
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US-PATENT-CLASS-75-214
US-PATENT-CLASS-75-226
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US-PATENT-CLASS-235-150.26
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US-PATENT-CLASS-317-46
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US-PATENT-CLASS-250-237P
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US-PATENT-APPL-SN-88435
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US-PATENT-CLASS-331-94.5S
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US-PATENT-CLASS-119-51.5
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US-PATENT-CLASS-346-108
US-PATENT-CLASS-346-138
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US-PATENT-CLASS-136-30
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US-PATENT-APPL-SN-80029
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US-PATENT-CLASS-62-93
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US-PATENT-CLASS-219-505
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US-PATENT-CLASS-310-52
US-PATENT-CLASS-335-216
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US-PATENT-CLASS-118-49.1
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US-PATENT-CLASS-325-4

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US-PATENT-CLASS-233-15
US-PATENT-CLASS-233-46
US-PATENT-CLASS-233-6
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US-PATENT-CLASS-29-192.5
US-PATENT-CLASS-29-420.5
US-PATENT-CLASS-65-3
US-PATENT-CLASS-75-DIG.1
US-PATENT-CLASS-75-200
US-PATENT-CLASS-75-208R
US-PATENT-CLASS-75-212
US-PATENT-CLASS-75-214
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US-PATENT-CLASS-250-345
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US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-318-640
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US-PATENT-CLASS-128-2V
US-PATENT-CLASS-128-24A
US-PATENT-CLASS-74-471XY
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US-PATENT-APPL-SN-585988
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US-PATENT-CLASS-23-255E
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US-PATENT-CLASS-343-6.5R
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US-PATENT-CLASS-260-520
US-PATENT-CLASS-260-78TF
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US-PATENT-CLASS-338-283
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US-PATENT-CLASS-330-24
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US-PATENT-CLASS-333-83T
US-PATENT-CLASS-333-98R
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US-PATENT-CLASS-250-351
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US-PATENT-CLASS-307-219
US-PATENT-CLASS-328-61
US-PATENT-CLASS-328-62
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US-PATENT-CLASS-73-86.5
US-PATENT-3,905,356

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US-PATENT-CLASS-328-41
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US-PATENT-CLASS-357-24
US-PATENT-CLASS-357-7
US-PATENT-3,906,296

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US-PATENT-CLASS-250-370
US-PATENT-CLASS-357-5
US-PATENT-3,906,231

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US-PATENT-CLASS-331-94.5P
US-PATENT-3,906,397

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US-PATENT-CLASS-350-161
US-PATENT-CLASS-350-96WG
US-PATENT-3,906,393

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US-PATENT-CLASS-308-195
US-PATENT-CLASS-308-201
US-PATENT-3,905,660

N75-32441* c 36 NASA-CASE-NPO-13449-1
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US-PATENT-CLASS-331-94.5PE
US-PATENT-CLASS-331-94-5G
US-PATENT-3,906,398

N75-32465*# c 37 NASA-CASE-ARC-10907-1
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N75-32581* c 44 NASA-CASE-MFS-21628-1
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US-PATENT-CLASS-126-271
US-PATENT-CLASS-165-105
US-PATENT-CLASS-244-173
US-PATENT-CLASS-60-641
US-PATENT-CLASS-60-656
US-PATENT-3,903,699

N75-33181* c 24 NASA-CASE-LEW-11484-1
US-PATENT-APPL-SN-356554
US-PATENT-CLASS-117-105.2
US-PATENT-CLASS-117-38
US-PATENT-CLASS-117-46FS
US-PATENT-CLASS-117-8.5
US-PATENT-CLASS-29-DIG.24
US-PATENT-CLASS-29-DIG.39
US-PATENT-CLASS-29-527.2
US-PATENT-CLASS-72-46
US-PATENT-3,906,769

N75-33342* c 34 NASA-CASE-MSC-14273-1
US-PATENT-APPL-SN-395522
US-PATENT-CLASS-210-234
US-PATENT-CLASS-210-259
US-PATENT-CLASS-210-304
US-PATENT-CLASS-210-333
US-PATENT-CLASS-210-340
US-PATENT-CLASS-210-411
US-PATENT-CLASS-210-425
US-PATENT-CLASS-210-512
US-PATENT-CLASS-210-82
US-PATENT-3,907,686

N75-33367* c 35 NASA-CASE-LAR-10629-1
US-PATENT-APPL-SN-402987
US-PATENT-CLASS-116-114AH
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-432PS
US-PATENT-3,896,758

N75-33368* c 35 NASA-CASE-LAR-11326-1
US-PATENT-APPL-SN-491416
US-PATENT-CLASS-195-103.5R
US-PATENT-3,907,646

N75-33369* c 35 NASA-CASE-LAR-11263-1
US-PATENT-APPL-SN-472775
US-PATENT-CLASS-73-141A
US-PATENT-3,906,788

N75-33396* c 37 NASA-CASE-MFS-22263-1
US-PATENT-APPL-SN-367096
US-PATENT-CLASS-279-1B
US-PATENT-CLASS-279-107
US-PATENT-CLASS-279-89
US-PATENT-CLASS-29-26A
US-PATENT-CLASS-294-116
US-PATENT-CLASS-294-86.33
US-PATENT-3,907,312

N75-33640* c 52 NASA-CASE-LEW-12051-1
US-PATENT-APPL-SN-397478
US-PATENT-CLASS-128-230
US-PATENT-CLASS-128-305
US-PATENT-3,906,954

N76-14158* c 15 NASA-CASE-LAR-11051-1
US-PATENT-APPL-SN-384773
US-PATENT-CLASS-244-165
US-PATENT-CLASS-244-3.21
US-PATENT-CLASS-74-5.7
US-PATENT-3,915,416

N76-14186* c 18 NASA-CASE-MSC-12559-1
US-PATENT-APPL-SN-370582
US-PATENT-CLASS-178-DIG.20
US-PATENT-CLASS-244-161
US-PATENT-CLASS-33-286
US-PATENT-CLASS-35-12
US-PATENT-CLASS-356-153
US-PATENT-3,910,533

N76-14190* c 20 NASA-CASE-LEW-11593-1
US-PATENT-APPL-SN-363691
US-PATENT-CLASS-60-39.23
US-PATENT-CLASS-60-39.29
US-PATENT-CLASS-60-39.74R
US-PATENT-3,910,035

N76-14191* c 20 NASA-CASE-LEW-11118-2
US-PATENT-APPL-SN-436316
US-PATENT-CLASS-239-127.3
US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-3,910,039

N76-14203* c 24 NASA-CASE-NPO-12122-1
US-PATENT-APPL-SN-401921
US-PATENT-CLASS-149-36
US-PATENT-CLASS-423-407
US-PATENT-3,919,014

N76-14204* c 24 NASA-CASE-MSC-12568-1
US-PATENT-APPL-SN-325764
US-PATENT-CLASS-136-146
US-PATENT-CLASS-136-148
US-PATENT-CLASS-162-102
US-PATENT-CLASS-162-153
US-PATENT-CLASS-162-222
US-PATENT-CLASS-162-228
US-PATENT-3,910,814

N76-14264* c 27 NASA-CASE-MSC-14182-1
US-PATENT-APPL-SN-419748
US-PATENT-CLASS-403-179
US-PATENT-CLASS-403-28
US-PATENT-CLASS-428-109
US-PATENT-CLASS-428-212
US-PATENT-CLASS-428-214
US-PATENT-CLASS-428-416
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-77
US-PATENT-3,920,339

N76-14284* c 31 NASA-CASE-NPO-13435-1
US-PATENT-APPL-SN-479803
US-PATENT-CLASS-62-129
US-PATENT-CLASS-62-49
US-PATENT-CLASS-73-295
US-PATENT-3,914,950

N76-14321* c 32 NASA-CASE-LAR-11021-1
US-PATENT-APPL-SN-453115
US-PATENT-CLASS-325-304
US-PATENT-CLASS-325-306
US-PATENT-CLASS-325-372
US-PATENT-CLASS-328-145
US-PATENT-CLASS-343-178
US-PATENT-3,916,316

N76-14371* c 33 NASA-CASE-KSC-10834-1
US-PATENT-APPL-SN-536535
US-PATENT-CLASS-178-69.5R
US-PATENT-CLASS-178-88
US-PATENT-CLASS-328-100
US-PATENT-CLASS-328-63
US-PATENT-3,916,084

N76-14372* c 33 NASA-CASE-LAR-10970-1
US-PATENT-APPL-SN-527790
US-PATENT-CLASS-343-770
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-846
US-PATENT-3,919,710

N76-14373* c 33 NASA-CASE-NPO-13451-1
US-PATENT-APPL-SN-501012
US-PATENT-CLASS-235-92SH
US-PATENT-CLASS-307-221R
US-PATENT-CLASS-328-37
US-PATENT-3,911,330

N76-14429* c 35 NASA-CASE-LAR-11552-1
US-PATENT-APPL-SN-518885
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-212
US-PATENT-3,914,997

N76-14430* c 35 NASA-CASE-NPO-13170-1
US-PATENT-APPL-SN-382281
US-PATENT-CLASS-338-6
US-PATENT-CLASS-73-88.5R
US-PATENT-3,914,991

N76-14431* c 35 NASA-CASE-LEW-11915-1
US-PATENT-APPL-SN-474744
US-PATENT-CLASS-137-15.2
US-PATENT-CLASS-235-151.34
US-PATENT-CLASS-60-39.29
US-PATENT-3,911,260

N76-14447* c 36 NASA-CASE-ARC-10542-1
US-PATENT-APPL-SN-446582
US-PATENT-CLASS-356-106R
US-PATENT-CLASS-356-28
US-PATENT-3,915,572

N76-14460* c 37 NASA-CASE-MFS-19104-1
US-PATENT-APPL-SN-483650
US-PATENT-CLASS-280-226
US-PATENT-CLASS-285-265
US-PATENT-3,915,482

N76-14461* c 37 NASA-CASE-LEW-11094-2
US-PATENT-APPL-SN-352361
US-PATENT-APPL-SN-462903
US-PATENT-CLASS-29-421
US-PATENT-CLASS-72-383
US-PATENT-CLASS-72-54
US-PATENT-CLASS-72-63
US-PATENT-3,914,960

N76-14463* c 37 NASA-CASE-MFS-22323-1
US-PATENT-APPL-SN-474745
US-PATENT-CLASS-137-515.3
US-PATENT-CLASS-137-550
US-PATENT-CLASS-210-420
US-PATENT-CLASS-251-148.6
US-PATENT-3,910,307

N76-14595* c 44 NASA-CASE-MFS-22562-1
US-PATENT-APPL-SN-459484
US-PATENT-CLASS-126-270
US-PATENT-CLASS-136-206
US-PATENT-CLASS-204-32R
US-PATENT-CLASS-204-33
US-PATENT-CLASS-204-38A
US-PATENT-CLASS-204-40
US-PATENT-CLASS-204-42
US-PATENT-CLASS-204-49
US-PATENT-CLASS-29-194
US-PATENT-CLASS-29-195
US-PATENT-CLASS-29-197
US-PATENT-3,920,413

N76-14600* c 44 NASA-CASE-LEW-11085-2
US-PATENT-APPL-SN-154930
US-PATENT-APPL-SN-371322
US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-572
US-PATENT-3,912,540

N76-14601* c 44 NASA-CASE-MFS-22749-1
US-PATENT-APPL-SN-483857
US-PATENT-CLASS-136-114
US-PATENT-CLASS-136-162
US-PATENT-CLASS-136-89
US-PATENT-3,912,541

N76-14602* c 44 NASA-CASE-NPO-13497-1
US-PATENT-APPL-SN-526446
US-PATENT-CLASS-126-271
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-311
US-PATENT-3,915,148

N76-14757* c 52 NASA-CASE-MSC-14199-1
US-PATENT-APPL-SN-354408
US-PATENT-CLASS-128-2.06R
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2H
US-PATENT-3,910,257

N76-14804* c 54 NASA-CASE-MSC-14840-1
US-PATENT-APPL-SN-526449
US-PATENT-CLASS-138-2
US-PATENT-CLASS-73-421R
US-PATENT-3,915,012

N76-14818* c 60 NASA-CASE-NPO-13423-1
US-PATENT-APPL-SN-521601
US-PATENT-CLASS-340-147C
US-PATENT-CLASS-340-147R
US-PATENT-3,916,386

N76-14931* c 75 NASA-CASE-MFS-21987-1
US-PATENT-APPL-SN-438147
US-PATENT-CLASS-315-111.6
US-PATENT-CLASS-73-12
US-PATENT-CLASS-89-8
US-PATENT-3,916,761

N76-15189* c 12 — NASA-CASE-MSC-12811-1
US-PATENT-APPL-SN-446560
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-293
US-PATENT-CLASS-427-162
US-PATENT-CLASS-427-250
US-PATENT-3,927,227

N76-15258* c 23 — NASA-CASE-MFS-22355-1
US-PATENT-APPL-SN-487852
US-PATENT-CLASS-260-32.6N
US-PATENT-CLASS-260-32.8N
US-PATENT-CLASS-260-346.3
US-PATENT-CLASS-260-47CP
US-PATENT-CLASS-260-571
US-PATENT-CLASS-260-78TF
US-PATENT-3,925,312

N76-15310* c 27 — NASA-CASE-ARC-10714-1
US-PATENT-APPL-SN-396885
US-PATENT-CLASS-260-2.5AK
US-PATENT-CLASS-427-196
US-PATENT-CLASS-427-426
US-PATENT-CLASS-428-303
US-PATENT-3,916,060

N76-15311* c 27 — NASA-CASE-NPO-13120-1
US-PATENT-APPL-SN-348422
US-PATENT-CLASS-29-182.5
US-PATENT-3,926,567

N76-15329* c 32 — NASA-CASE-GSC-11966-1
US-PATENT-APPL-SN-512825
US-PATENT-CLASS-342-779
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-876
US-PATENT-3,927,408

N76-15330* c 32 — NASA-CASE-LAR-11112-1
US-PATENT-APPL-SN-491419
US-PATENT-CLASS-343-786
US-PATENT-3,924,237

N76-15373* c 33 — NASA-CASE-LEW-11938-1
US-PATENT-APPL-SN-544611
US-PATENT-CLASS-317-258
US-PATENT-CLASS-317-261
US-PATENT-3,924,164

N76-15431* c 35 — NASA-CASE-MSC-13802-2
US-PATENT-APPL-SN-189438
US-PATENT-APPL-SN-475338
US-PATENT-CLASS-250-251
US-PATENT-CLASS-250-287
US-PATENT-CLASS-250-423
US-PATENT-3,916,187

N76-15432* c 35 — NASA-CASE-LAR-11435-1
US-PATENT-APPL-SN-522556
US-PATENT-CLASS-310-8.2
US-PATENT-CLASS-73-1R
US-PATENT-3,924,444

N76-15433* c 35 — NASA-CASE-GSC-11892-1
US-PATENT-APPL-SN-502135
US-PATENT-CLASS-250-336
US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-489
US-PATENT-3,927,324

N76-15434* c 35 — NASA-CASE-LEW-11072-2
US-PATENT-APPL-SN-254323
US-PATENT-CLASS-136-211
US-PATENT-CLASS-136-212
US-PATENT-CLASS-136-225
US-PATENT-3,925,104

N76-15435* c 35 — NASA-CASE-NPO-13506-1
US-PATENT-APPL-SN-483851
US-PATENT-CLASS-343-909
US-PATENT-3,924,239

N76-15436* c 35 — NASA-CASE-GSC-11895-1
US-PATENT-APPL-SN-511687
US-PATENT-CLASS-331-3
US-PATENT-CLASS-331-94
US-PATENT-3,924,200

N76-15457* c 37 — NASA-CASE-MFS-22707-1
US-PATENT-APPL-SN-535410
US-PATENT-CLASS-214-1R
US-PATENT-CLASS-74-364
US-PATENT-CLASS-74-665B
US-PATENT-3,922,930

N76-15460* c 37 — NASA-CASE-MFS-22022-1
US-PATENT-APPL-SN-405341
US-PATENT-CLASS-214-1CM
US-PATENT-3,923,186

N76-15461* c 37 — NASA-CASE-LEW-11078-4
US-PATENT-APPL-SN-236264
US-PATENT-APPL-SN-346483
US-PATENT-APPL-SN-445178
US-PATENT-CLASS-306-122
US-PATENT-CLASS-306-160
US-PATENT-CLASS-306-72
US-PATENT-CLASS-306-73
US-PATENT-CLASS-308-9
US-PATENT-3,926,482

N76-15860* c 72 — NASA-CASE-LEW-11966-1
US-PATENT-APPL-SN-500980
US-PATENT-CLASS-250-499
US-PATENT-CLASS-250-500
US-PATENT-3,924,137

N76-16014* c 02 — NASA-CASE-LAR-11575-1
US-PATENT-APPL-SN-527727
US-PATENT-CLASS-244-138
US-PATENT-3,930,628

N76-16228* c 27 — NASA-CASE-NPO-12061-1
US-PATENT-APPL-SN-455491
US-PATENT-CLASS-260-879
US-PATENT-CLASS-260-900
US-PATENT-CLASS-260-92.1
US-PATENT-3,931,132

N76-16229* c 27 — NASA-CASE-LEW-11179-1
US-PATENT-APPL-SN-357312
US-PATENT-CLASS-29-195A
US-PATENT-CLASS-427-203
US-PATENT-CLASS-427-204
US-PATENT-CLASS-427-205
US-PATENT-CLASS-427-270
US-PATENT-CLASS-427-275
US-PATENT-CLASS-427-297
US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-469
US-PATENT-CLASS-428-539
US-PATENT-3,931,447

N76-16230* c 27 — NASA-CASE-ARC-10813-1
US-PATENT-APPL-SN-437556
US-PATENT-CLASS-264-331
US-PATENT-CLASS-426-412
US-PATENT-CLASS-426-413
US-PATENT-CLASS-426-447
US-PATENT-CLASS-426-811
US-PATENT-CLASS-426-920
US-PATENT-CLASS-426-921
US-PATENT-3,928,708

N76-16249* c 32 — NASA-CASE-MSC-14557-1
US-PATENT-APPL-SN-426994
US-PATENT-APPL-SN-464720
US-PATENT-CLASS-178-69C
US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-321
US-PATENT-3,924,068

N76-16331* c 33 — NASA-CASE-MSC-14649-1
US-PATENT-APPL-SN-505819
US-PATENT-CLASS-324-79D
US-PATENT-CLASS-329-134
US-PATENT-3,924,183

N76-16332* c 33 — NASA-CASE-GSC-11849-1
US-PATENT-APPL-SN-470428
US-PATENT-CLASS-174-145
US-PATENT-CLASS-174-148
US-PATENT-CLASS-339-143C
US-PATENT-CLASS-339-196R
US-PATENT-CLASS-339-242
US-PATENT-CLASS-339-275R
US-PATENT-3,931,456

N76-16390* c 35 — NASA-CASE-NPO-13386-1
US-PATENT-APPL-SN-522552
US-PATENT-CLASS-324-43R
US-PATENT-3,924,176

N76-16391* c 35 — NASA-CASE-NPO-10106-2
US-PATENT-APPL-SN-192603
US-PATENT-APPL-SN-668116
US-PATENT-CLASS-360-10
US-PATENT-CLASS-360-101
US-PATENT-CLASS-360-35
US-PATENT-CLASS-360-9
US-PATENT-3,924,267

N76-16392* c 35 — NASA-CASE-LAR-11458-1
US-PATENT-APPL-SN-504225
US-PATENT-CLASS-294-1R
US-PATENT-CLASS-294-19R
US-PATENT-3,929,364

N76-16393* c 35 — NASA-CASE-GSC-11886-1
US-PATENT-APPL-SN-502124
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-287
US-PATENT-CLASS-250-288
US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-423
US-PATENT-3,931,516

N76-16446* # c 37 — NASA-CASE-NPO-13342-1
US-PATENT-APPL-SN-390048

N76-16612* c 44 — NASA-CASE-MFS-22002-1
US-PATENT-APPL-SN-452768
US-PATENT-CLASS-136-202
US-PATENT-CLASS-136-210
US-PATENT-CLASS-165-105
US-PATENT-CLASS-310-4
US-PATENT-3,931,532

N76-17186* c 18 — NASA-CASE-MSC-12561-1
US-PATENT-APPL-SN-448323
US-PATENT-CLASS-244-162
US-PATENT-CLASS-244-172
US-PATENT-3,929,306

N76-17317* c 34 — NASA-CASE-LAR-10799-2
US-PATENT-APPL-SN-301410
US-PATENT-APPL-SN-419319
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-106
US-PATENT-CLASS-237-60
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-244-135R
US-PATENT-CLASS-417-200
US-PATENT-3,929,305

N76-17656* c 45 — NASA-CASE-LAR-11675-1
US-PATENT-APPL-SN-557448
US-PATENT-CLASS-178-DIG.1
US-PATENT-CLASS-178-DIG.8
US-PATENT-CLASS-178-6.8
US-PATENT-CLASS-250-373
US-PATENT-CLASS-340-237S
US-PATENT-CLASS-356-207
US-PATENT-3,931,462

N76-17951* c 75 — NASA-CASE-MFS-22145-2
US-PATENT-APPL-SN-367606
US-PATENT-APPL-SN-500982
US-PATENT-CLASS-124-1
US-PATENT-CLASS-124-11R
US-PATENT-CLASS-89-8
US-PATENT-3,929,110

N76-18117* c 07 — NASA-CASE-LAR-11674-1
US-PATENT-APPL-SN-331759
US-PATENT-APPL-SN-488618
US-PATENT-CLASS-181-33HC
US-PATENT-CLASS-239-265.11
US-PATENT-3,938,742

N76-18245* c 25 — NASA-CASE-NPO-13063-1
US-PATENT-APPL-SN-227977
US-PATENT-CLASS-23-230M
US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-253R
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-23-255R
US-PATENT-CLASS-235-151.13
US-PATENT-CLASS-73-23.1
US-PATENT-3,860,393

N76-18257* c 26 — NASA-CASE-MFS-22907-1
US-PATENT-APPL-SN-518546
US-PATENT-CLASS-324-34R
US-PATENT-3,938,037

N76-18299* c 32 — NASA-CASE-GSC-11862-1
US-PATENT-APPL-SN-500979
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-840
US-PATENT-CLASS-343-912
US-PATENT-CLASS-343-915
US-PATENT-3,938,162

N76-18345* c 33 — NASA-CASE-NPO-13385-1
US-PATENT-APPL-SN-501011
US-PATENT-CLASS-340-347AD
US-PATENT-3,938,188

N76-18353* c 33 — NASA-CASE-GSC-11925-1
US-PATENT-APPL-SN-539983
US-PATENT-CLASS-360-26
US-PATENT-CLASS-360-51
US-PATENT-3,938,182

N76-18364* c 34 — NASA-CASE-LAR-11570-1
US-PATENT-APPL-SN-482987
US-PATENT-CLASS-244-23D
US-PATENT-CLASS-60-316
US-PATENT-3,940,097

N76-18374* c 34 — NASA-CASE-MFS-22939-1
US-PATENT-APPL-SN-542754
US-PATENT-CLASS-250-335
US-PATENT-3,940,621

N76-18400* c 35 — NASA-CASE-LAR-10208-1
US-PATENT-APPL-SN-483958
US-PATENT-CLASS-73-103
US-PATENT-CLASS-73-05
US-PATENT-3,938,373

N76-18401* c 35 — NASA-CASE-NPO-13396-1
US-PATENT-APPL-SN-563283
US-PATENT-CLASS-55-261
US-PATENT-CLASS-73-28
US-PATENT-CLASS-73-421.5R
US-PATENT-3,936,367

N76-18402* c 35 — NASA-CASE-MFS-22517-1
US-PATENT-APPL-SN-506804
US-PATENT-CLASS-350-3.5
US-PATENT-3,937,555

N76-18403* c 35 — NASA-CASE-ARC-10322-1
US-PATENT-APPL-SN-464209
US-PATENT-CLASS-23-254EP
US-PATENT-3,938,604

N76-18427* c 36 — NASA-CASE-NPO-11945-1
US-PATENT-APPL-SN-269450
US-PATENT-CLASS-331-94.5

US-PATENT-CLASS-333-7.51
US-PATENT-CLASS-350-150
US-PATENT-CLASS-350-160
US-PATENT-CLASS-423-352
US-PATENT-CLASS-423-644
US-PATENT-3,806,834

N76-19428* c 36 — NASA-CASE-NPO-13544-1
US-PATENT-APPL-SN-533568
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-350-96WG
US-PATENT-3,939,439

N76-19454* c 37 — NASA-CASE-MFS-23047-1
US-PATENT-APPL-SN-521602
US-PATENT-CLASS-173-132
US-PATENT-CLASS-29-81D
US-PATENT-CLASS-72-453
US-PATENT-CLASS-73-398
US-PATENT-3,937,055

N76-19455* c 37 — NASA-CASE-MSC-14435-1
US-PATENT-APPL-SN-450500
US-PATENT-CLASS-229-193
US-PATENT-CLASS-229-206
US-PATENT-CLASS-229-214
US-PATENT-CLASS-229-239
US-PATENT-3,937,387

N76-19456* c 37 — NASA-CASE-LAR-11224-1
US-PATENT-APPL-SN-450502
US-PATENT-CLASS-134-21
US-PATENT-CLASS-134-37
US-PATENT-CLASS-19-205
US-PATENT-CLASS-209-250
US-PATENT-CLASS-209-300
US-PATENT-CLASS-209-305
US-PATENT-3,937,681

N76-19457* c 37 — NASA-CASE-NPO-13402-1
US-PATENT-APPL-SN-387342
US-PATENT-CLASS-123-DIG.12
US-PATENT-CLASS-123-119E
US-PATENT-CLASS-123-120
US-PATENT-CLASS-123-121
US-PATENT-CLASS-123-89A
US-PATENT-3,906,913

N76-19458* c 37 — NASA-CASE-LEW-11960-1
US-PATENT-APPL-SN-527728
US-PATENT-CLASS-204-157.1H
US-PATENT-CLASS-250-527
US-PATENT-3,939,048

N76-19459* c 37 — NASA-CASE-GSC-11551-1
US-PATENT-APPL-SN-440017
US-PATENT-CLASS-308-10
US-PATENT-3,937,533

N76-19641* c 44 — NASA-CASE-NPO-13237-1
US-PATENT-APPL-SN-379127
US-PATENT-CLASS-136-83R
US-PATENT-CLASS-136-86D
US-PATENT-3,884,867

N76-19642* c 44 — NASA-CASE-NPO-13464-1
US-PATENT-APPL-SN-426444
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-116
US-PATENT-CLASS-48-117
US-PATENT-CLASS-48-60
US-PATENT-CLASS-48-75
US-PATENT-CLASS-48-86
US-PATENT-3,920,416

N76-19643* c 44 — NASA-CASE-NPO-11981-1
US-PATENT-APPL-SN-379126
US-PATENT-CLASS-136-30
US-PATENT-CLASS-136-86.F
US-PATENT-CLASS-320-21
US-PATENT-CLASS-320-22
US-PATENT-3,912,989

N76-19800* c 60 — NASA-CASE-NPO-13067-1
US-PATENT-APPL-SN-274348
US-PATENT-CLASS-340-172.5
US-PATENT-3,829,839

N76-19813* c 74 — NASA-CASE-GSC-11677-1
US-PATENT-APPL-SN-462863
US-PATENT-CLASS-235-184
US-PATENT-CLASS-250-199
US-PATENT-3,937,945

N76-19338* c 33 — NASA-CASE-NPO-13519-1
US-PATENT-APPL-SN-536761
US-PATENT-CLASS-128-2S
US-PATENT-CLASS-33-156R
US-PATENT-CLASS-33-174D
US-PATENT-CLASS-73-88.5SD
US-PATENT-3,937,212

N76-19339* c 33 — NASA-CASE-ARC-10810-1
US-PATENT-APPL-SN-469309
US-PATENT-CLASS-204-195R
US-PATENT-CLASS-215-247
US-PATENT-CLASS-324-30B
US-PATENT-3,938,035

N76-19436* c 37 — NASA-CASE-MFS-20907-1
US-PATENT-APPL-SN-479800
US-PATENT-CLASS-222-145
US-PATENT-CLASS-259-4AC
US-PATENT-3,941,365

N76-19437* c 37 — NASA-CASE-MSC-12815-1
US-PATENT-APPL-SN-491417
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-244-183
US-PATENT-CLASS-29-432
US-PATENT-CLASS-29-433
US-PATENT-CLASS-29-526
US-PATENT-CLASS-52-706
US-PATENT-CLASS-52-758F
US-PATENT-3,936,027

N76-19786* c 52 — NASA-CASE-LAR-11987-1
US-PATENT-APPL-SN-563467
US-PATENT-CLASS-128-DIG.20
US-PATENT-CLASS-128-2R
US-PATENT-3,937,215

N76-19668* c 98 — NASA-CASE-MFS-22631-1
US-PATENT-APPL-SN-531572
US-PATENT-CLASS-340-38P
US-PATENT-CLASS-356-162
US-PATENT-CLASS-356-167
US-PATENT-CLASS-358-71
US-PATENT-3,930,735

N76-19805* c 74 — NASA-CASE-MFS-21672-1
US-PATENT-APPL-SN-354080
US-PATENT-CLASS-356-123
US-PATENT-CLASS-356-124
US-PATENT-3,938,892

N76-20114* c 04 — NASA-CASE-LAR-11387-1
US-PATENT-APPL-SN-531647
US-PATENT-CLASS-33-306
US-PATENT-CLASS-75-178R
US-PATENT-3,943,763

N76-20460* c 37 — NASA-CASE-NPO-13058-1
NASA-CASE-NPO-13436-1
US-PATENT-APPL-SN-513590
US-PATENT-CLASS-61-56
US-PATENT-CLASS-61-57.31
US-PATENT-3,942,328

N76-20958* c 74 — NASA-CASE-ARC-10631-1
US-PATENT-APPL-SN-514546
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-573
US-PATENT-3,943,368

N76-20994* c 76 — NASA-CASE-NPO-13443-1
US-PATENT-APPL-SN-522551
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-158R
US-PATENT-CLASS-324-158T
US-PATENT-CLASS-324-60C
US-PATENT-3,943,442

N76-21250* c 17 — NASA-CASE-MSC-12593-1
US-PATENT-APPL-SN-419747
US-PATENT-CLASS-325-14
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-112TC
US-PATENT-3,949,400

N76-21270* c 20 — NASA-CASE-MFS-21311-1
US-PATENT-APPL-SN-493309
US-PATENT-CLASS-244-3.22
US-PATENT-3,948,470

N76-21276* c 20 — NASA-CASE-LEW-11878-1
US-PATENT-APPL-SN-542157
US-PATENT-CLASS-29-28.19
US-PATENT-3,947,933

N76-21385* c 32 — NASA-CASE-NPO-13568-1
US-PATENT-APPL-SN-534286
US-PATENT-CLASS-343-701
US-PATENT-CLASS-343-781
US-PATENT-CLASS-343-786
US-PATENT-3,949,404

N76-21388* c 32 — NASA-CASE-MFS-22729-1
US-PATENT-APPL-SN-533808
US-PATENT-CLASS-235-150
US-PATENT-CLASS-325-42
US-PATENT-CLASS-333-19
US-PATENT-3,949,208

N76-21390* c 33 — NASA-CASE-ARC-10711-2
US-PATENT-APPL-SN-493363
US-PATENT-APPL-SN-586788
US-PATENT-CLASS-317-248
US-PATENT-CLASS-73-398C
US-PATENT-3,948,102

N76-21594* c 37 — NASA-CASE-LAR-11485-1
US-PATENT-APPL-SN-502137
US-PATENT-CLASS-156-256
US-PATENT-CLASS-156-382
US-PATENT-CLASS-156-596
US-PATENT-CLASS-248-362
US-PATENT-CLASS-248-363
US-PATENT-CLASS-269-21

US-PATENT-CLASS-33-1Q
US-PATENT-CLASS-33-174B
US-PATENT-3,945,879

N76-21742* c 45 — NASA-CASE-NPO-13476-1
US-PATENT-APPL-SN-521617
US-PATENT-CLASS-23-254E
US-PATENT-CLASS-250-574
US-PATENT-CLASS-356-37
US-PATENT-3,945,801

N76-21914* c 60 — NASA-CASE-NPO-13139-1
US-PATENT-APPL-SN-393524
US-PATENT-CLASS-235-153AE
US-PATENT-CLASS-340-172.5
US-PATENT-3,950,729

N76-22154* c 02 — NASA-CASE-LAR-10995-1
US-PATENT-APPL-SN-197193
US-PATENT-CLASS-244-36R
US-PATENT-CLASS-244-40R
US-PATENT-3,932,971

N76-22245* c 17 — NASA-CASE-GSC-11968-1
US-PATENT-APPL-SN-565290
US-PATENT-CLASS-178-69.5
US-PATENT-CLASS-358-135
US-PATENT-CLASS-340-147SY
US-PATENT-CLASS-340-207P
US-PATENT-3,953,674

N76-22264* c 19 — NASA-CASE-MFS-22965-1
US-PATENT-APPL-SN-516945
US-PATENT-CLASS-188-1B
US-PATENT-CLASS-248-22
US-PATENT-CLASS-248-358R
US-PATENT-3,942,860

N76-22298* ii 20 — NASA-CASE-MFS-19235-1
US-PATENT-APPL-SN-571821
US-PATENT-CLASS-254-124
US-PATENT-CLASS-254-93R
US-PATENT-CLASS-89-1.801
US-PATENT-3,952,999

N76-22309* c 24 — NASA-CASE-LEW-11980-1
US-PATENT-APPL-SN-513811
US-PATENT-CLASS-252-12
US-PATENT-3,953,343

N76-22323* c 25 — NASA-CASE-ARC-10786-1
US-PATENT-APPL-SN-526439
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-344
US-PATENT-CLASS-250-432R
US-PATENT-3,953,734

N76-22378* c 27 — NASA-CASE-ARC-10721-1
US-PATENT-APPL-SN-427779
US-PATENT-CLASS-264-80
US-PATENT-CLASS-264-83
US-PATENT-CLASS-264-164
US-PATENT-3,952,080

N76-22377* c 27 — NASA-CASE-MSC-14270-1
US-PATENT-APPL-SN-482109
US-PATENT-CLASS-108-54
US-PATENT-CLASS-427-370
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-380
US-PATENT-CLASS-427-402
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-429
US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-539
US-PATENT-CLASS-428-920
US-PATENT-3,953,649

N76-22529* c 38 — NASA-CASE-LAR-11439-1
US-PATENT-APPL-SN-464722
US-PATENT-CLASS-209-127R
US-PATENT-CLASS-317-248
US-PATENT-CLASS-324-61R
US-PATENT-CLASS-324-71CP
US-PATENT-3,953,782

N76-22540* ii 37 — NASA-CASE-MFS-22839-1
US-PATENT-APPL-SN-536702
US-PATENT-CLASS-110-16.8
US-PATENT-CLASS-244-137P
US-PATENT-CLASS-244-158
US-PATENT-CLASS-244-161
US-PATENT-3,952,976

N76-22541* c 37 — NASA-CASE-LEW-11879-1
US-PATENT-APPL-SN-561104
US-PATENT-CLASS-277-4
US-PATENT-CLASS-277-61
US-PATENT-CLASS-277-74
US-PATENT-CLASS-277-65R
US-PATENT-3,953,039

N76-22667* c 44 — NASA-CASE-MFS-20743-1
US-PATENT-APPL-SN-516664
US-PATENT-CLASS-128-271
US-PATENT-3,951,129

N76-22914* c 54 — NASA-CASE-GSC-12090-1
US-PATENT-APPL-SN-576659

N76-22960* c 74 — NASA-CASE-ARC-10820-1
US-PATENT-APPL-SN-561091

N76-23273* c 09 — NASA-CASE-MFS-23099-1
US-PATENT-APPL-SN-607969
US-PATENT-CLASS-73-147
US-PATENT-3,952,590

N76-23426* c 27 — NASA-CASE-MSC-14270-2
US-PATENT-APPL-SN-482105
US-PATENT-CLASS-106-54
US-PATENT-CLASS-427-376
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-380
US-PATENT-CLASS-427-402
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-428
US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-538
US-PATENT-CLASS-428-920
US-PATENT-3,955,034

N76-23570* c 37 — NASA-CASE-LEW-11169-1
US-PATENT-APPL-SN-446568
US-PATENT-CLASS-164-132
US-PATENT-3,957,104

N76-23675* c 44 — NASA-CASE-MFS-21628-2
US-PATENT-APPL-SN-421702
US-PATENT-APPL-SN-561020
US-PATENT-CLASS-126-270
US-PATENT-CLASS-165-133
US-PATENT-3,957,030

N76-23950* c 50 — NASA-CASE-MSC-14082-1
US-PATENT-APPL-SN-315070
US-PATENT-CLASS-340-347DD
US-PATENT-CLASS-340-347P
US-PATENT-3,958,239

N76-24260* c 09 — NASA-CASE-ARC-10806-1
US-PATENT-APPL-SN-505881
US-PATENT-CLASS-17b-DIG.35
US-PATENT-CLASS-178-7.89
US-PATENT-CLASS-35-12N
US-PATENT-3,956,833

N76-24360* c 24 — NASA-CASE-GSC-11796-1
US-PATENT-APPL-SN-401919
US-PATENT-CLASS-106-306
US-PATENT-CLASS-250-372
US-PATENT-CLASS-252-300
US-PATENT-CLASS-260-1
US-PATENT-3,957,675

N76-24408* c 27 — NASA-CASE-MSC-14331-1
US-PATENT-APPL-SN-374421
US-PATENT-CLASS-106-15FP
US-PATENT-CLASS-260-DIG.24
US-PATENT-CLASS-260-33.8F
US-PATENT-CLASS-260-45.7
US-PATENT-CLASS-260-82.1
US-PATENT-CLASS-526-1
US-PATENT-CLASS-526-258
US-PATENT-3,956,233

N76-24523* c 35 — NASA-CASE-LAR-11900-1
US-PATENT-APPL-SN-534268
US-PATENT-CLASS-73-1G
US-PATENT-CLASS-73-15.6
US-PATENT-3,956,919

N76-24524* c 35 — NASA-CASE-NPO-13462-1
US-PATENT-APPL-SN-545262
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-204
US-PATENT-3,956,934

N76-24525* c 35 — NASA-CASE-ARC-10816-1
US-PATENT-APPL-SN-552454
US-PATENT-CLASS-128-DIG.4
US-PATENT-CLASS-128-2.05V
US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-2.12
US-PATENT-3,957,037

N76-24553* c 38 — NASA-CASE-NPO-13931-1
US-PATENT-APPL-SN-531565
US-PATENT-CLASS-231-94.5C
US-PATENT-CLASS-350-96WG
US-PATENT-3,958,169

N76-24575* c 37 — NASA-CASE-LAR-10073-1
US-PATENT-APPL-SN-436317
US-PATENT-CLASS-154-2.42
US-PATENT-CLASS-156-296
US-PATENT-CLASS-264-102
US-PATENT-CLASS-264-257
US-PATENT-CLASS-428-117
US-PATENT-3,958,050

N76-24596* c 44 — NASA-CASE-MFS-22744-1
US-PATENT-APPL-SN-518544
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-271
US-PATENT-CLASS-350-293
US-PATENT-CLASS-350-299
US-PATENT-3,958,553

N76-24600* c 54 — NASA-CASE-MSC-14733-1
NASA-CASE-MSC-14795-1
US-PATENT-APPL-SN-522871
US-PATENT-CLASS-128-142.2
US-PATENT-CLASS-128-2.05
US-PATENT-CLASS-128-203
US-PATENT-CLASS-137-DIG.9
US-PATENT-CLASS-137-110
US-PATENT-3,957,044

N76-25049* c 76 — NASA-CASE-LEW-12094-1
US-PATENT-APPL-SN-508784
US-PATENT-CLASS-148-175
US-PATENT-CLASS-156-610
US-PATENT-CLASS-156-612
US-PATENT-CLASS-156-613
US-PATENT-CLASS-252-62.3
US-PATENT-CLASS-423-345
US-PATENT-CLASS-423-346
US-PATENT-3,956,032

N76-26175* c 04 — NASA-CASE-MFS-23551-1
US-PATENT-APPL-SN-114772
US-PATENT-CLASS-244-79
US-PATENT-CLASS-74-5.34
US-PATENT-3,739,648

N76-27232* c 07 — NASA-CASE-LAR-11476-1
US-PATENT-APPL-SN-592159
US-PATENT-CLASS-73-557
US-PATENT-3,964,319

N76-27383* c 25 — NASA-CASE-LEW-11390-2
US-PATENT-APPL-SN-247434
US-PATENT-APPL-SN-340863
US-PATENT-CLASS-178-11
US-PATENT-CLASS-178-16
US-PATENT-CLASS-423-249
US-PATENT-3,966,547

N73-27472* c 33 — NASA-CASE-GSC-11924-1
US-PATENT-APPL-SN-582319
US-PATENT-CLASS-343-755
US-PATENT-CLASS-343-779
US-PATENT-CLASS-343-854
US-PATENT-3,965,475

N76-27473* c 33 — NASA-CASE-HQN-10875-1
US-PATENT-APPL-SN-555336
US-PATENT-CLASS-250-336
US-PATENT-CLASS-250-372
US-PATENT-3,965,354

N76-27515* c 34 — NASA-CASE-NPO-13381-1
US-PATENT-APPL-SN-446567
US-PATENT-CLASS-165-105
US-PATENT-CLASS-29-182
US-PATENT-CLASS-29-193
US-PATENT-CLASS-55-523
US-PATENT-CLASS-55-526
US-PATENT-CLASS-75-225
US-PATENT-3,964,902

N76-27517* c 34 — NASA-CASE-ARC-10755-2
US-PATENT-APPL-SN-424013
US-PATENT-APPL-SN-545284
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-194R
US-PATENT-3,964,306

N76-27587* c 37 — NASA-CASE-LAR-11709-1
US-PATENT-APPL-SN-548468
US-PATENT-CLASS-339-17M
US-PATENT-CLASS-339-18C
US-PATENT-3,964,813

N76-27588* c 37 — NASA-CASE-LAR-11726-1
US-PATENT-APPL-SN-538047
US-PATENT-CLASS-219-118
US-PATENT-CLASS-219-92
US-PATENT-3,967,091

N76-27664* c 44 — NASA-CASE-MFS-23059-1
US-PATENT-APPL-SN-510024
US-PATENT-CLASS-136-86A
US-PATENT-3,964,928

N76-28563* c 38 — NASA-CASE-NPO-12142-1
US-PATENT-APPL-SN-437249
US-PATENT-CLASS-73-88.5
US-PATENT-3,545,262

N76-28628* c 44 — NASA-CASE-GSC-12022-1
NASA-CASE-GSC-12023-1
US-PATENT-APPL-SN-579488
US-PATENT-CLASS-136-89
US-PATENT-CLASS-148-174
US-PATENT-CLASS-148-175
US-PATENT-CLASS-156-612
US-PATENT-CLASS-156-613
US-PATENT-CLASS-156-614
US-PATENT-CLASS-29-572
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-59
US-PATENT-CLASS-427-113
US-PATENT-CLASS-427-248
US-PATENT-CLASS-427-249
US-PATENT-CLASS-427-250
US-PATENT-CLASS-427-88
US-PATENT-3,961,997

N76-29217* c 05 — NASA-CASE-ARC-10470-3
US-PATENT-APPL-SN-208279
US-PATENT-APPL-SN-321180
US-PATENT-APPL-SN-496779
US-PATENT-CLASS-244-46
US-PATENT-3,971,535

N76-29347* c 17 — NASA-CASE-ARC-10849-1
US-PATENT-APPL-SN-563049
US-PATENT-CLASS-340-189M
US-PATENT-CLASS-340-206
US-PATENT-CLASS-73-493
US-PATENT-CLASS-73-517R
US-PATENT-3,972,038

N76-29379* c 25 — NASA-CASE-LEW-11390-3
US-PATENT-APPL-SN-247434
US-PATENT-APPL-SN-380046
US-PATENT-CLASS-178-11
US-PATENT-CLASS-178-14
US-PATENT-CLASS-178-16
US-PATENT-CLASS-250-400
US-PATENT-CLASS-250-429
US-PATENT-CLASS-250-492R
US-PATENT-3,971,897

N76-29551* c 35 — NASA-CASE-LAR-10907-1
US-PATENT-APPL-SN-559845
US-PATENT-CLASS-250-340
US-PATENT-CLASS-250-353
US-PATENT-3,971,940

N76-29552* c 35 — NASA-CASE-MSC-12617-1
US-PATENT-APPL-SN-513578
US-PATENT-CLASS-235-61NV
US-PATENT-CLASS-235-78M
US-PATENT-CLASS-235-88M
US-PATENT-3,971,915

N76-29575* c 36 — NASA-CASE-NPO-13346-1
US-PATENT-APPL-SN-533556
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5C
US-PATENT-3,972,006

N76-29586* c 37 — NASA-CASE-LEW-11949-1
US-PATENT-APPL-SN-590182
US-PATENT-CLASS-308-160
US-PATENT-CLASS-308-163
US-PATENT-CLASS-308-170
US-PATENT-3,971,602

N76-29590* c 37 — NASA-CASE-NPO-13813-1
US-PATENT-APPL-SN-574208
US-PATENT-CLASS-62-6
US-PATENT-3,971,230

N76-29599* c 44 — NASA-CASE-HQN-10862-1
US-PATENT-APPL-SN-604374
US-PATENT-CLASS-136-143
US-PATENT-CLASS-136-30
US-PATENT-3,972,727

N76-29700* c 44 — NASA-CASE-NPO-13342-2
US PATENT-APPL-SN-390049
US-PATENT-APPL-SN-548559
US-PATENT-CLASS-123-1A
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-215
US-PATENT-CLASS-48-95
US-PATENT-3,965,941

N76-29701* c 44 — NASA-CASE-NPO-13587-1
US-PATENT-APPL-SN-586493
US-PATENT-CLASS-417-141
US-PATENT-CLASS-417-207
US-PATENT-CLASS-417-209
US-PATENT-CLASS-417-379
US-PATENT-CLASS-60-517
US-PATENT-CLASS-62-6
US-PATENT-3,972,651

N76-29704* c 44 — NASA-CASE-NPO-13484-2
US-PATENT-APPL-SN-428444
US-PATENT-APPL-SN-553987
US-PATENT-CLASS-252-373
US-PATENT-CLASS-42-215
US-PATENT-CLASS-420-590
US-PATENT-CLASS-431-163
US-PATENT-CLASS-431-210
US-PATENT-CLASS-431-4
US-PATENT-CLASS-60-197R
US-PATENT-3,971,847

N76-29891* c 51 — NASA-CASE-GSC-11917-2
US-PATENT-APPL-SN-475337
US-PATENT-APPL-SN-555641
US-PATENT-CLASS-185-103.5R
US-PATENT-3,971,703

N76-29894* c 52 — NASA-CASE-ARC-10583-1
US-PATENT-APPL-SN-301418
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2H
US-PATENT-CLASS-128-2P
US-PATENT-3,971,382

N76-29895* c 52 — NASA-CASE-NPO-13644-1
US-PATENT-APPL-SN-574218
US-PATENT-CLASS-128-2.05R
US-PATENT-CLASS-128-2S

US-PATENT-CLASS-338-6
US-PATENT-3,971,363
N76-29896* c 52 ——— NASA-CASE-NPO-13643-1
US-PATENT-APPL-SN-578241
US-PATENT-CLASS-128-2.05E
US-PATENT-CLASS-128-2.06E
US-PATENT-CLASS-128-23
US-PATENT-CLASS-128-418
US-PATENT-CLASS-128-419P
US-PATENT-CLASS-73-398AR
US-PATENT-3,971,364
N76-30053* c 74 ——— NASA-CASE-GSC-11782-1
US-PATENT-APPL-SN-463925
US-PATENT-CLASS-250-199
US-PATENT-3,971,930
N76-30131* c 81 ——— NASA-CASE-MSC-12423-1
US-PATENT-APPL-SN-448320
US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-425.2
US-PATENT-CLASS-73-432R
US-PATENT-3,971,256
N76-30793* ii 52 ——— US-PATENT-APPL-SN-452768
US-PATENT-CLASS-351-23
US-PATENT-CLASS-351-30
US-PATENT-CLASS-351-36
US-PATENT-RE-28,921
N76-31365* c 31 ——— NASA-CASE-ARC-10445-1
US-PATENT-APPL-SN-481419
US-PATENT-CLASS-313-250
US-PATENT-CLASS-313-306
US-PATENT-CLASS-313-309
US-PATENT-CLASS-313-336
US-PATENT-3,978,364
N76-31372* ii 32 ——— NASA-CASE-NPO-13465-1
US-PATENT-APPL-SN-531575
US-PATENT-CLASS-179-15A
US-PATENT-3,978,287
N76-31409* c 33 ——— NASA-CASE-NPO-12134-1
US-PATENT-APPL-SN-536786
US-PATENT-CLASS-313-94
US-PATENT-CLASS-357-63
US-PATENT-3,978,360
N76-31489* ii 35 ——— NASA-CASE-GSC-11893-1
US-PATENT-AFPL-SN-565420
US-PATENT-CLASS-73-9
US-PATENT-3,977,231
N76-31490* ii 35 ——— NASA-CASE-NPO-13604-1
US-PATENT-APPL-SN-574219
US-PATENT-CLASS-356-106S
US-PATENT-CLASS-356-114
US-PATENT-CLASS-356-209
US-PATENT-CLASS-356-244
US-PATENT-3,977,787
N76-31512* c 36 ——— NASA-CASE-NPO-13490-1
US-PATENT-APPL-SN-549419
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-3,978,417
N76-31524* c 37 ——— NASA-CASE-NPO-13535-1
US-PATENT-APPL-SN-563050
US-PATENT-CLASS-264-129
US-PATENT-CLASS-264-161
US-PATENT-CLASS-264-210
US-PATENT-CLASS-264-304
US-PATENT-CLASS-264-305
US-PATENT-CLASS-264-308
US-PATENT-CLASS-264-310
US-PATENT-CLASS-264-316
US-PATENT-CLASS-264-334
US-PATENT-CLASS-427-230
US-PATENT-3,978,187
N76-31562* c 39 ——— NASA-CASE-MSC-19372-1
US-PATENT-APPL-SN-517985
US-PATENT-CLASS-182-178
US-PATENT-CLASS-29-467
US-PATENT-CLASS-29-526
US-PATENT-CLASS-52-256
US-PATENT-CLASS-52-637
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-651
US-PATENT-CLASS-52-726
US-PATENT-CLASS-52-745
US-PATENT-CLASS-52-749
US-PATENT-3,977,147
N76-31666* c 44 ——— NASA-CASE-NPO-13087-2
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US-PATENT-APPL-SN-462341
US-PATENT-CLASS-138-106
US-PATENT-CLASS-138-89
US-PATENT-3,866,639
N76-31667* c 44 ——— NASA-CASE-MFS-23167-1
US-PATENT-APPL-SN-602818
US-PATENT-CLASS-165-10
US-PATENT-CLASS-60-658
US-PATENT-3,977,197
N76-31714* c 46 ——— NASA-CASE-LAR-11406-1
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US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-3,977,831
N76-31948* ii 52 ——— NASA-CASE-GSC-12115-1
US-PATENT-APPL-SN-262596
US-PATENT-CLASS-340-347SY
US-PATENT-3,976,997
N76-31998* c 74 ——— NASA-CASE-MSC-12640-1
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US-PATENT-3,977,771
N76-32140* c 00 ——— NASA-CASE-MFS-16809-3
US-PATENT-APPL-SN-307714
US-PATENT-APPL-SN-511894
US-PATENT-APPL-SN-82279
US-PATENT-CLASS-325-114
US-PATENT-CLASS-325-115
US-PATENT-CLASS-325-186
US-PATENT-CLASS-343-705
US-PATENT-3,978,410
N76-32315* c 27 ——— NASA-CASE-ARC-10592-2
US-PATENT-APPL-SN-414043
US-PATENT-CLASS-260-2.5EQ
US-PATENT-CLASS-260-5888
US-PATENT-3,995,096
N76-32457* c 33 ——— NASA-CASE-NPO-13553-1
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US-PATENT-CLASS-343-915
US-PATENT-3,978,490
N76-32835*# c 52 ——— NASA-CASE-ARC-10894-1
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N77-10001* ii 02 ——— NASA-CASE-LAR-11645-1
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US-PATENT-CLASS-244-130
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N77-10071* c 06 ——— NASA-CASE-NPO-13528-1
US-PATENT-APPL-SN-521620
US-PATENT-CLASS-73-147
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N77-10112* c 15 ——— NASA-CASE-MFS-20855-1
US-PATENT-APPL-SN-243374
US-PATENT-CLASS-244-150
US-PATENT-3,744,739
N77-10113* c 15 ——— NASA-CASE-MFS-22787-1
US-PATENT-APPL-SN-511348
US-PATENT-CLASS-244-169
US-PATENT-CLASS-244-171
US-PATENT-CLASS-244-3.21
US-PATENT-3,984,072
N77-10148* c 20 ——— NASA-CASE-LEW-12082-1
US-PATENT-APPL-SN-612984
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US-PATENT-CLASS-313-240
US-PATENT-CLASS-313-361
US-PATENT-CLASS-315-111.3
US-PATENT-CLASS-60-202
US-PATENT-3,983,695
N77-10213* ii 28 ——— NASA-CASE-LAR-11995-1
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US-PATENT-CLASS-86-1R
US-PATENT-3,983,780
N77-10229* c 31 ——— NASA-CASE-NPO-13459-1
US-PATENT-APPL-SN-598967
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US-PATENT-CLASS-62-514JT
US-PATENT-3,983,714
N77-10262* c 32 ——— NASA-CASE-LAR-11827-1
US-PATENT-APPL-SN-412370
US-PATENT-APPL-SN-561764
US-PATENT-CLASS-176-88
US-PATENT-CLASS-235-150.1
US-PATENT-CLASS-235-156
US-PATENT-CLASS-325-323
US-PATENT-CLASS-325-349
US-PATENT-CLASS-325-476
US-PATENT-3,984,634
N77-10429* c 33 ——— NASA-CASE-NPO-13512-1
US-PATENT-APPL-SN-533734
US-PATENT-CLASS-321-19
US-PATENT-CLASS-321-2
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-323-17
US-PATENT-CLASS-323-22T
US-PATENT-CLASS-323-23
US-PATENT-3,984,799
N77-10429* c 33 ——— NASA-CASE-GSC-11960-1
US-PATENT-APPL-SN-595197
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US-PATENT-CLASS-244-42CG
US-PATENT-CLASS-317-80
US-PATENT-CLASS-324-72
US-PATENT-3,984,730
N77-10483* c 34 ——— NASA-CASE-MFS-22991-1
US-PATENT-APPL-SN-521008
US-PATENT-CLASS-165-104
US-PATENT-CLASS-165-170
US-PATENT-3,983,933
N77-10492* ii 35 ——— NASA-CASE-NPO-13479-1
US-PATENT-APPL-SN-509891
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US-PATENT-CLASS-250-201
US-PATENT-3,984,681
N77-10493* c 35 ——— NASA-CASE-MFS-23178-1
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US-PATENT-CLASS-250-339
US-PATENT-CLASS-250-347
US-PATENT-CLASS-356-106R
US-PATENT-3,984,696
N77-10584* c 43 ——— NASA-CASE-MSC-14472-1
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US-PATENT-CLASS-340-146.3Q
US-PATENT-3,984,671
N77-10605* c 44 ——— NASA-CASE-MFS-22458-1
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US-PATENT-CLASS-29-572
US-PATENT-3,984,256
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US-PATENT-CLASS-23-281
US-PATENT-CLASS-252-373
US-PATENT-CLASS-423-650
US-PATENT-CLASS-431-11
US-PATENT-CLASS-431-116
US-PATENT-CLASS-431-162
US-PATENT-CLASS-431-170
US-PATENT-CLASS-431-41
US-PATENT-CLASS-48-116
US-PATENT-CLASS-48-117
US-PATENT-CLASS-48-187R
US-PATENT-CLASS-48-212
US-PATENT-CLASS-48-61
US-PATENT-3,982,910
N77-10753* c 47 ——— NASA-CASE-MFS-23382-1
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US-PATENT-CLASS-250-353
US-PATENT-CLASS-250-347
US-PATENT-CLASS-356-199R
US-PATENT-3,984,685
N77-10780* c 52 ——— NASA-CASE-ARC-10855-1
US-PATENT-APPL-SN-617012
US-PATENT-CLASS-128-2R
US-PATENT-CLASS-73-340R
US-PATENT-3,983,753
N77-10809* c 74 ——— NASA-CASE-MSC-19442-1
US-PATENT-APPL-SN-558602
US-PATENT-CLASS-356-237
US-PATENT-CLASS-356-239
US-PATENT-3,985,450
N77-11397* c 37 ——— NASA-CASE-LAR-11548-1
US-PATENT-APPL-SN-537670
US-PATENT-CLASS-219-10
US-PATENT-CLASS-219-82
US-PATENT-3,986,001
N77-12039* c 32 ——— NASA-CASE-MSC-12588-1
US-PATENT-APPL-SN-545265
US-PATENT-CLASS-340-347DD
US-PATENT-3,986,729
N77-12240* c 32 ——— NASA-CASE-NPO-13543-1
NASA-CASE-NPO-13545-1
US-PATENT-APPL-SN-588173
US-PATENT-CLASS-325-47
US-PATENT-CLASS-340-146.1AG
US-PATENT-CLASS-340-146.1BD
US-PATENT-CLASS-340-146.1BV
US-PATENT-3,986,077
N77-12402* c 37 ——— NASA-CASE-MFS-23052-1
US-PATENT-APPL-SN-591999
US-PATENT-CLASS-60-527
US-PATENT-3,987,630
N77-12721* c 90 ——— NASA-CASE-NPO-13429-1
NASA-CASE-NPO-13447-1
US-PATENT-APPL-SN-495022
US-PATENT-CLASS-179-1.5M
US-PATENT-CLASS-325-111
US-PATENT-CLASS-340-172.5
US-PATENT-3,986,710
N77-13217* ii 27 ——— NASA-CASE-NPO-13686-1
US-PATENT-APPL-SN-633977
US-PATENT-CLASS-29-182.5

N77-13019* c 33 — US-PATENT-3,990,880
NASA-CASE-NPO-11515-1
US-PATENT-APPL-SN-139596
US-PATENT-CLASS-307-233
US-PATENT-CLASS-307-295
US-PATENT-CLASS-326-133
US-PATENT-3,750,035
N77-13418* c 37 — NASA-CASE-ARC-10905-1
US-PATENT-APPL-SN-618584
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US-PATENT-CLASS-219-304
US-PATENT-CLASS-239-171
US-PATENT-CLASS-252-359A
US-PATENT-3,990,867
N77-14025* c 07 — NASA-CASE-LEW-12419-1
US-PATENT-APPL-SN-578075
US-PATENT-CLASS-416-153
US-PATENT-CLASS-416-160
US-PATENT-CLASS-416-162
US-PATENT-CLASS-416-165
US-PATENT-CLASS-416-167
US-PATENT-CLASS-60-226R
US-PATENT-3,994,128
N77-14292* c 32 — NASA-CASE-LAR-11607-1
US-PATENT-APPL-SN-617895
US-PATENT-CLASS-325-145
US-PATENT-CLASS-332-22
US-PATENT-CLASS-332-23R
US-PATENT-3,998,532
N77-14333* c 33 — NASA-CASE-GSC-11789-1
US-PATENT-APPL-SN-538662
US-PATENT-CLASS-317-31
US-PATENT-CLASS-321-13
US-PATENT-3,998,506
N77-14334* c 33 — NASA-CASE-GSC-12018-1
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US-PATENT-CLASS-329-122
US-PATENT-CLASS-329-124
US-PATENT-CLASS-331-23
US-PATENT-CLASS-331-36C
US-PATENT-CLASS-332-30V
US-PATENT-3,997,848
N77-14335* c 33 — NASA-CASE-MFS-22560-1
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US-PATENT-CLASS-330-14
US-PATENT-CLASS-330-28
US-PATENT-CLASS-330-59
US-PATENT-3,996,462
N77-14426* c 35 — NASA-CASE-NPO-13683-1
US-PATENT-APPL-SN-634205
US-PATENT-CLASS-250-269
US-PATENT-CLASS-250-298
US-PATENT-3,996,464
N77-14427* c 35 — NASA-CASE-LAR-11848-1
US-PATENT-APPL-SN-644571
US-PATENT-CLASS-73-133R
US-PATENT-3,995,476
N77-14428* c 35 — NASA-CASE-ARC-10448-3
US-PATENT-APPL-SN-221670
US-PATENT-APPL-SN-318849
US-PATENT-CLASS-250-386
US-PATENT-3,996,468
N77-14429* c 35 — NASA-CASE-NPO-13540-1
US-PATENT-APPL-SN-526450
US-PATENT-CLASS-136-232
US-PATENT-CLASS-136-233
US-PATENT-3,996,070
N77-14811* c 36 — NASA-CASE-NPO-13683-1
US-PATENT-APPL-SN-[illegible]264
US-PATENT-CLASS-250-343
US-PATENT-CLASS-356-201
US-PATENT-CLASS-356-204
US-PATENT-CLASS-356-57
US-PATENT-3,995,960
N77-14977* c 37 — NASA-CASE-FRC-10061-1
US-PATENT-APPL-SN-[illegible]504
US-PATENT-CLASS-260-432
US-PATENT-3,996,977
N77-14978* c 37 — NASA-CASE-LAR-11058-1
US-PATENT-APPL-SN-621 759
US-PATENT-CLASS-83-451
US-PATENT-CLASS-83-467R
US-PATENT-3,995,522
N77-14979* c 37 — NASA-CASE-GSC-11960-1
US-PATENT-APPL-SN-629458
US-PATENT-CLASS-242-107
US-PATENT-CLASS-242-183
US-PATENT-CLASS-242-204
US-PATENT-CLASS-242-210
US-PATENT-CLASS-242-57
US-PATENT-3,995,789
N77-14980* c 44 — NASA-CASE-LEW-11498-1
US-PATENT-APPL-SN-643508
US-PATENT-CLASS-136-89
US-PATENT-CLASS-204-192
US-PATENT-3,998,067
N77-14581* c 44 — NASA-CASE-LEW-12220-1
US-PATENT-APPL-SN-606691
US-PATENT-CLASS-320-2
US-PATENT-CLASS-429-23
US-PATENT-CLASS-429-34
US-PATENT-3,998,064
N77-14735* c 52 — NASA-CASE-MFS-23225-1
US-PATENT-APPL-SN-612965
US-PATENT-CLASS-3-1.2
US-PATENT-CLASS-3-14
US-PATENT-3,995,324
N77-14736* c 52 — NASA-CASE-ARC-11007-1
US-PATENT-APPL-SN-652948
US-PATENT-CLASS-128-2H
US-PATENT-CLASS-128-379
US-PATENT-CLASS-128-400
US-PATENT-CLASS-128-402
US-PATENT-3,995,621
N77-14737* c 52 — NASA-CASE-MSC-14276-1
US-PATENT-APPL-SN-557430
US-PATENT-CLASS-250-360R
US-PATENT-CLASS-250-444
US-PATENT-CLASS-250-498
US-PATENT-3,996,471
N77-14738* c 52 — NASA-CASE-KSC-10849-1
US-PATENT-APPL-SN-613734
US-PATENT-CLASS-128-419
US-PATENT-CLASS-3-1.1
US-PATENT-CLASS-339-252R
US-PATENT-3,995,844
N77-14751* c 60 — NASA-CASE-GSC-11839-1
US-PATENT-APPL-SN-468614
US-PATENT-CLASS-235-152
US-PATENT-CLASS-250-227
US-PATENT-CLASS-340-172.5
US-PATENT-CLASS-350-96R
US-PATENT-3,996,455
N77-17029* c 05 — NASA-CASE-ARC-10807-1
US-PATENT-APPL-SN-513612
US-PATENT-CLASS-416-104
US-PATENT-CLASS-416-139
US-PATENT-CLASS-416-141
US-PATENT-3,999,888
N77-17099* c 07 — NASA-CASE-LEW-12760-1
US-PATENT-APPL-SN-569625
US-PATENT-CLASS-60-226A
US-PATENT-CLASS-60-229
US-PATENT-4,005,574
N77-17143* c 20 — NASA-CASE-XLA-01349
US-PATENT-APPL-SN-256493
US-PATENT-APPL-SN-54552
US-PATENT-CLASS-102-49.3
US-PATENT-CLASS-264-3R
US-PATENT-CLASS-86-1R
US-PATENT-CLASS-86-20R
US-PATENT-4,000,682
N77-17161* c 23 — NASA-CASE-MSC-14428-1
US-PATENT-APPL-SN-450504
US-PA[illegible]ENT-CLASS-23-230B
US-PATENT-CLASS-23-230M
US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-231
US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-55-197
US-PATENT-CLASS-55-67
US-PATENT-CLASS-55-74
US-PATENT-CLASS-73-23.1
US-PATENT-CLASS-73-61.1C
US-PATENT-4,003,257
N77-17361* c 33 — NASA-CASE-MFS-23181-1
US-PATENT-APPL-SN-566435
US-PATENT-CLASS-331-116
US-PATENT-CLASS-331-177V
US-PATENT-CLASS-332-16
US-PATENT-CLASS-332-30V
US-PATENT-4,003,004
N77-17364* c 33 — NASA-CASE-LEW-11681-1
US-PATENT-APPL-SN-598999
US-PATENT-CLASS-307-229
US-PATENT-CLASS-307-230
US-PATENT-CLASS-329-161
US-PATENT-4,001,602
N77-17426* c 35 — NASA-CASE-MFS-22671-2
US-PATENT-APPL-SN-619831
US-PATENT-APPL-SN-561958
US-PATENT-CLASS-360-25
US-PATENT-CLASS-360-31
US-PATENT-4,003,084
N77-17464* c 37 — NASA-CASE-GSC-11979-1
US-PATENT-APPL-SN-593142
US-PATENT-CLASS-306-10
US-PATENT-4,000,826
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US-PATENT-CLASS-235-92CT
US-PATENT-CLASS-235-92DN
US-PATENT-CLASS-235-92R
US-PATENT-4,001,552
N77-18154* c 07 — NASA-CASE-ARC-10761-1
US-PATENT-APPL-SN-612890
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-244-53B
US-PATENT-4,007,891
N77-18307* c 32 — NASA-CASE-MFS-23303-1
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US-PATENT-CLASS-333-70R
US-PATENT-CLASS-333-75
US-PATENT-CLASS-333-76
US-PATENT-CLASS-333-82B
US-PATENT-4,007,434
N77-18382* c 34 — NASA-CASE-LAR-10805-2
US-PATENT-APPL-SN-428862
US-PATENT-APPL-SN-579240
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-427-160
US-PATENT-CLASS-427-322
US-PATENT-CLASS-428-35
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-461
US-PATENT-CLASS-428-474
US-PATENT-4,008,348
N77-18417* c 35 — NASA-CASE-ARC-10898-1
US-PATENT-APPL-SN-625732
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-432SD
US-PATENT-CLASS-73-71.6
US-PATENT-4,007,623
N77-18801* c 73 — NASA-CASE-NPO-13121-1
US-PATENT-APPL-SN-294727
US-PATENT-CLASS-310-4R
US-PATENT-CLASS-313-311
US-PATENT-CLASS-346R
US-PATENT-4,008,407
N77-18803* c 74 — NASA-CASE-MSC-14883-1
US-PATENT-APPL-SN-612967
US-PATENT-CLASS-358-44
US-PATENT-4,004,292
N77-19058* c 04 — NASA-CASE-LAR-11397-2
US-PATENT-APPL-SN-531647
US-PATENT-APPL-SN-623158
US-PATENT-CLASS-33-356
US-PATENT-CLASS-73-178R
US-PATENT-4,006,631
N77-19076* c 09 — NASA-CASE-ARC-10979-1
US-PATENT-APPL-SN-606483
US-PATENT-CLASS-126-6
US-PATENT-CLASS-244-63
US-PATENT-3,980,206
N77-19170* c 24 — NASA-CASE-LEW-12550-1
US-PATENT-APPL-SN-598305
US-PATENT-CLASS-416-224
US-PATENT-CLASS-416-230
US-PATENT-4,008,989
N77-19171* c 24 — NASA-CASE-LEW-12019-1
US-PATENT-APPL-SN-462434
US-PATENT-CLASS-204-1R
US-PATENT-CLASS-204-40
US-PATENT-CLASS-204-6
US-PATENT-CLASS-29-527.2
US-PATENT-3,999,602
N77-19353* c 34 — NASA-CASE-ARC-10912-1
US-PATENT-APPL-SN-623187
US-PATENT-CLASS-62-100
US-PATENT-CLASS-62-121
US-PATENT-CLASS-62-269
US-PATENT-CLASS-62-315
US-PATENT-4,007,601
N77-19380* c 35 — NASA-CASE-MSC-14853-1
US-PATENT-APPL-SN-521616
US-PATENT-CLASS-177-1
US-PATENT-CLASS-177-208
US-PATENT-CLASS-73-432R
US-PATENT-3,999,933
N77-19419* c 36 — NASA-CASE-XNP-04167-3
US-PATENT-APPL-SN-[illegible]
US-PATENT-APPL-SN-[illegible]
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5G
US-PATENT-CLASS-331-94.5PE
US-PATENT-4,007,430
N77-19457* c 37 — NASA-CASE-MFS-15210-1
US-PATENT-APPL-SN-[illegible]
US-PATENT-CLASS-197-19D
US-PATENT-CLASS-197-19R
US-PATENT-3,999,138
N77-19458* c 37 — NASA-CASE-GSC-11983-1
NASA-CASE-GSC-11974-1
NASA-CASE-GSC-11975-1

US-PATENT-APPL-SN-596787
US-PATENT-CLASS-310-4A
US-PATENT-CLASS-337-334
US-PATENT-CLASS-340-224
US-PATENT-CLASS-60-527
US-PATENT-CLASS-75-122.7
US-PATENT-CLASS-75-170
US-PATENT-4,010,456

N77-19571* c 44 NASA-CASE-LEW-11549-1
US-PATENT-APPL-SN-510677
US-PATENT-CLASS-136-89
US-PATENT-3,980,541

N77-19760* c 60 NASA-CASE-ARC-10899-1
US-PATENT-APPL-SN-578774
US-PATENT-CLASS-178-69.5R
US-PATENT-CLASS-179-15BS
US-PATENT-CLASS-340-172.5
US-PATENT-3,980,049

N77-20162* c 20 NASA-CASE-LEW-12048-1
US-PATENT-APPL-SN-669033
US-PATENT-CLASS-313-230
US-PATENT-CLASS-313-231.3
US-PATENT-CLASS-313-360
US-PATENT-CLASS-315-111.3
US-PATENT-CLASS-315-111.6
US-PATENT-CLASS-60-202
US-PATENT-4,011,719

N77-20201* c 26 NASA-CASE-LEW-12345-1
US-PATENT-APPL-SN-584094
US-PATENT-CLASS-148-12.7N
US-PATENT-CLASS-148-162
US-PATENT-CLASS-148-2
US-PATENT-CLASS-148-20.3
US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-4,012,237

N77-20299* c 32 NASA-CASE-NPO-13753-1
US-PATENT-APPL-SN-658449
US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-6.8R
US-PATENT-CLASS-343-6.5R
US-PATENT-4,012,696

N77-20396* c 38 NASA-CASE-ARC-10716-1
US-PATENT-APPL-SN-603695
US-PATENT-CLASS-235-150.2
US-PATENT-CLASS-235-150.25
US-PATENT-CLASS-244-165
US-PATENT-CLASS-244-171
US-PATENT-CLASS-244-3.21
US-PATENT-4,012,018

N77-20400* c 35 NASA-CASE-ARC-10911-1
US-PATENT-APPL-SN-610802
US-PATENT-CLASS-338-26
US-PATENT-CLASS-73-204
US-PATENT-4,011,756

N77-20401* c 35 NASA-CASE-MFS-23267-1
US-PATENT-APPL-SN-653422
US-PATENT-CLASS-128-270
US-PATENT-CLASS-128-271
US-PATENT-CLASS-250-203R
US-PATENT-4,011,854

N77-20662* c 74 NASA-CASE-LAR-11702-1
US-PATENT-APPL-SN-608482
US-PATENT-CLASS-350-145
US-PATENT-CLASS-350-174
US-PATENT-4,012,123

N77-21267* c 32 NASA-CASE-LAR-11380-1
US-PATENT-APPL-SN-662178
US-PATENT-CLASS-340-5H
US-PATENT-CLASS-343-100
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5MM
US-PATENT-4,010,179

N77-21314* c 33 NASA-CASE-NPO-10169-1
NASA-CASE-NPO-10791-1
US-PATENT-APPL-SN-744529
US-PATENT-CLASS-307-232
US-PATENT-CLASS-307-238
US-PATENT-CLASS-307-260
US-PATENT-CLASS-329-110
US-PATENT-CLASS-329-205
US-PATENT-CLASS-332-16
US-PATENT-CLASS-332-30
US-PATENT-CLASS-332-52
US-PATENT-3,982,609

N77-21315* c 33 NASA-CASE-NPO-11510-1
US-PATENT-APPL-SN-173179
US-PATENT-APPL-SN-395059
US-PATENT-CLASS-313-161
US-PATENT-CLASS-313-184
US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-32
US-PATENT-CLASS-315-344
US-PATENT-3,981,152

N77-21316* c 33 NASA-CASE-NPO-10790-1
US-PATENT-APPL-SN-841278
US-PATENT-CLASS-313-175
US-PATENT-CLASS-313-180
US-PATENT-CLASS-313-184
US-PATENT-CLASS-315-108
US-PATENT-CLASS-315-110
US-PATENT-3,821,330

N77-21392* c 35 NASA-CASE-NPO-10711-1
US-PATENT-APPL-SN-644315
US-PATENT-CLASS-179-100.2C
US-PATENT-3,697,706

N77-21393* c 35 NASA-CASE-NPO-10619-1
US-PATENT-APPL-SN-757017
US-PATENT-CLASS-339-25
US-PATENT-3,555,483

N77-21844* c 54 NASA-CASE-MFS-23074-1
US-PATENT-APPL-SN-623186
US-PATENT-CLASS-188-291
US-PATENT-CLASS-254-158
US-PATENT-4,018,423

N77-21941* c 74 NASA-CASE-NPO-11429-1
US-PATENT-APPL-SN-95169
US-PATENT-CLASS-240-41.35R
US-PATENT-CLASS-240-41R
US-PATENT-CLASS-240-46.13
US-PATENT-CLASS-358-236
US-PATENT-3,711,701

N77-22286* c 33 NASA-CASE-NPO-10870-1
NASA-CASE-NPO-11191-1
NASA-CASE-NPO-11403-1
US-PATENT-APPL-SN-109810
US-PATENT-CLASS-313-146
US-PATENT-CLASS-313-182
US-PATENT-CLASS-313-60
US-PATENT-3,736,453

N77-22449* c 35 NASA-CASE-LAR-11625-1
US-PATENT-APPL-SN-632112
US-PATENT-CLASS-73-66R
US-PATENT-4,018,085

N77-22450* c 35 NASA-CASE-MFS-23281-1
US-PATENT-APPL-SN-657995
US-PATENT-CLASS-73-15.6
US-PATENT-CLASS-73-86
US-PATENT-4,018,080

N77-22479* c 37 NASA-CASE-NPO-10318-1
US-PATENT-APPL-SN-703107
US-PATENT-CLASS-60-53
US-PATENT-3,478,514

N77-22480* c 37 NASA-CASE-NPO-13058-1
NASA-CASE-NPO-13096-1
US-PATENT-APPL-SN-403154
US-PATENT-CLASS-214-16.1CB
US-PATENT-3,896,956

N77-22482* c 37 NASA-CASE-MSC-19536-1
US-PATENT-APPL-SN-658450
US-PATENT-CLASS-74-96
US-PATENT-4,018,092

N77-22500* c 44 NASA-CASE-LEW-12364-1
US-PATENT-APPL-SN-707124
US-PATENT-CLASS-253-317
US-PATENT-CLASS-429-105
US-PATENT-CLASS-429-107
US-PATENT-CLASS-429-190
US-PATENT-4,018,971

N77-22507* c 44 NASA-CASE-LAR-11361-1
US-PATENT-APPL-SN-669929
US-PATENT-CLASS-23-277R
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-55-158
US-PATENT-4,019,860

N77-22794* c 51 NASA-CASE-GSC-12039-1
US-PATENT-APPL-SN-572991
US-PATENT-CLASS-195-103.5K
US-PATENT-CLASS-195-103.5R
US-PATENT-4,014,745

N77-22960* c 74 NASA-CASE-ARC-10976-1
US-PATENT-APPL-SN-665032
US-PATENT-CLASS-358-171
US-PATENT-4,018,533

N77-22961* c 74 NASA-CASE-NPO-13722-1
US-PATENT-APPL-SN-616472
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-211K
US-PATENT-CLASS-358-141
US-PATENT-CLASS-358-192
US-PATENT-CLASS-358-172
US-PATENT-4,018,532

N77-23106* c 07 NASA-CASE-LEW-12830-1
US-PATENT-APPL-SN-588041
US-PATENT-APPL-SN-655149
US-PATENT-CLASS-123-122E
US-PATENT-CLASS-123-41.33
US-PATENT-CLASS-137-101
US-PATENT-CLASS-415-160
US-PATENT-CLASS-60-39.03
US-PATENT-CLASS-60-39.280
US-PATENT-CLASS-60-39.66
US-PATENT-4,020,632

N77-23462* c 37 NASA-CASE-LAR-11563-1
US-PATENT-APPL-SN-672815
US-PATENT-CLASS-29-DIG.35
US-PATENT-CLASS-29-447
US-PATENT-CLASS-403-273
US-PATENT-CLASS-53-9
US-PATENT-4,017,959

N77-23483* c 37 NASA-CASE-MFS-23086-
US-PATENT-APPL-SN-662817
US-PATENT-CLASS-213-81
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-244-161
US-PATENT-4,018,409

N77-24328* c 32 NASA-CASE-ARC-10984-1
US-PATENT-APPL-SN-690815
US-PATENT-CLASS-358-133
US-PATENT-CLASS-358-139
US-PATENT-4,025,950

N77-24331* c 32 NASA-CASE-MSC-14840-1
US-PATENT-APPL-SN-662414
US-PATENT-CLASS-178-69
US-PATENT-CLASS-325-346
US-PATENT-CLASS-329-104
US-PATENT-CLASS-329-122
US-PATENT-4,027,255

N77-24375* c 33 NASA-CASE-MSC-12709-1
US-PATENT-APPL-SN-630580
US-PATENT-CLASS-307-225R
US-PATENT-CLASS-328-38
US-PATENT-CLASS-328-39
US-PATENT-CLASS-328-44
US-PATENT-CLASS-328-61
US-PATENT-4,025,866

N77-24423* c 34 NASA-CASE-LAR-12045-1
US-PATENT-APPL-SN-662415
US-PATENT-CLASS-250-4R
US-PATENT-CLASS-261-DIG.75
US-PATENT-CLASS-261-123
US-PATENT-4,026,527

N77-24454* c 35 NASA-CASE-ARC-10800-1
US-PATENT-APPL-SN-630570
US-PATENT-CLASS-338-229
US-PATENT-CLASS-338-28
US-PATENT-4,025,891

N77-24456* c 35 NASA-CASE-GSC-12577-1
US-PATENT-APPL-SN-630519
US-PATENT-CLASS-65-136
US-PATENT-CLASS-65-59A
US-PATENT-CLASS-65[illegible]
US-PATENT-CLASS-65[illegible]
US-PATENT-4,025,327

N77-25499* c 36 NASA-CASE-GSC-11571-1
US-PATENT-APPL-SN-646704
US-PATENT-CLASS-331-94.5S
US-PATENT-4,025,871

N77-25501* c 36 NASA-CASE-ARC-10870-1
US-PATENT-APPL-SN-691348
US-PATENT-CLASS-250-574
US-PATENT-CLASS-350-160
US-PATENT-CLASS-350-162
US-PATENT-CLASS-356-28
US-PATENT-4,026,655

N77-25502* c 36 NASA-CASE-NPO-13147-1
US-PATENT-APPL-SN-317315
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5P
US-PATENT-4,027,273

N77-25769* c 51 NASA-CASE-LAR-10773-1
US-PATENT-APPL-SN-126235
US-PATENT-APPL-SN-314656
US-PATENT-APPL-SN-402259
US-PATENT-CLASS-195-1.8
US-PATENT-4,018,649

N77-25772* c 52 NASA-CASE-KSC-11030-1
US-PATENT-APPL-SN-709640
US-PATENT-CLASS-128-1C
US-PATENT-CLASS-3-1
US-PATENT-CLASS-306-1R
US-PATENT-4,026,554

N77-26385* c 33 NASA-CASE-LEW-11878-1
US-PATENT-APPL-SN-708658
US-PATENT-CLASS-204-323
US-PATENT-CLASS-29-527
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-625
US-PATENT-CLASS-29-630E
US-PATENT-4,023,255

N77-26396* c 33 NASA-CASE-GSC-11624-1
US-PATENT-APPL-SN-560486
US-PATENT-CLASS-310-139
US-PATENT-CLASS-310-227
US-PATENT-CLASS-310-254

US-PATENT-4,027,212

N77-26067* c 33 — NASA-CASE-LAR-11389-1
US-PATENT-APPL-SN-229143
US-PATENT-APPL-SN-340862
US-PATENT-CLASS-310-111
US-PATENT-CLASS-310-168
US-PATENT-CLASS-322-96
US-PATENT-3,849,720

N77-26477* c 36 — NASA-CASE-NPO-13550-1
US-PATENT-APPL-SN-483001
US-PATENT-CLASS-250-261
US-PATENT-CLASS-250-262
US-PATENT-CLASS-250-263
US-PATENT-CLASS-250-423P
US-PATENT-4,031,389

N77-26919* c 71 — NASA-CASE-NPO-13873-1
US-PATENT-APPL-SN-613004
US-PATENT-CLASS-330-5.5
US-PATENT-CLASS-331-107A
US-PATENT-CLASS-333-72
US-PATENT-4,025,876

N77-26942* c 74 — NASA-CASE-GSC-12058-1
US-PATENT-APPL-SN-680938
US-PATENT-CLASS-250-199
US-PATENT-4,025,783

N77-27116* c 07 — NASA-CASE-LEW-12508-1
US-PATENT-APPL-SN-680057
US-PATENT-CLASS-416-2/0R
US-PATENT-CLASS-416-2/1
US-PATENT-4,033,705

N77-27131* c 09 — NASA-CASE-LAR-11883-1
US-PATENT-APPL-SN-662175
US-PATENT-CLASS-73-15R
US-PATENT-4,027,524

N77-27187* c 24 — NASA-CASE-MFS-22926-1
US-PATENT-APPL-SN-557565
US-PATENT-CLASS-164-60
US-PATENT-CLASS-75-135
US-PATENT-CLASS-75-139
US-PATENT-CLASS-75-65R
US-PATENT-4,029,500

N77-27188* c 24 — NASA-CASE-LEW-12118-1
US-PATENT-APPL-SN-616332
US-PATENT-CLASS-428-301
US-PATENT-CLASS-428-328
US-PATENT-CLASS-428-368
US-PATENT-CLASS-428-418
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-911
US-PATENT-4,029,836

N77-27340* c 34 — NASA-CASE-ARC-10974-1
US-PATENT-APPL-SN-667010
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-229
US-PATENT-4,028,809

N77-27386* c 35 — NASA-CASE-GSC-12059-1
US-PATENT-APPL-SN-680967
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5T
US-PATENT-CLASS-350-253
US-PATENT-4,030,047

N77-27387* c 35 — NASA-CASE-NPO-11103-1
US-PATENT-APPL-SN-3604
US-PATENT-CLASS-73-84
US-PATENT-3,623,359

N77-27388* c 35 — NASA-CASE-MSC-12327-1
US-PATENT-APPL-SN-19572
US-PATENT-CLASS-73-362AR
US-PATENT-3,813,454

N77-27400* c 37 — NASA-CASE-GSC-11083-1
US-PATENT-APPL-SN-41431
US-PATENT-CLASS-318-267
US-PATENT-CLASS-318-468
US-PATENT-CLASS-318-470
US-PATENT-CLASS-318-675
US-PATENT-3,828,113

N77-27977* c 51 — NASA-CASE-LAR-11 649-1
US-PATENT-APPL-SN-676942
US-PATENT-CLASS-116-31R
US-PATENT-CLASS-116-6
US-PATENT-CLASS-116-7
US-PATENT-CLASS-116-8
US-PATENT-CLASS-23-253A
US-PATENT-CLASS-23-259
US-PATENT-CLASS-23-292
US-PATENT-CLASS-424-3
US-PATENT-CLASS-427-4
US-PATENT-CLASS-8-3
US-PATENT-CLASS-8-94.11
US-PATENT-4,029,470

N77-28116* c 07 — NASA-CASE-LAR-11310-1
US-PATENT-APPL-SN-394698
US-PATENT-CLASS-415-145
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-263

N77-28225* c 24 — US-PATENT-4,033,119
NASA-CASE-MSC-12631-1
US-PATENT-APPL-SN-598541
US-PATENT-CLASS-156-229
US-PATENT-CLASS-244-123
US-PATENT-CLASS-428-141
US-PATENT-CLASS-428-161
US-PATENT-CLASS-428-425
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-458
US-PATENT-4,032,089

N77-28266* c 26 — NASA-CASE-LEW-11573-1
US-PATENT-APPL-SN-625733
US-PATENT-CLASS-228-190
US-PATENT-CLASS-228-194
US-PATENT-CLASS-228-232
US-PATENT-4,033,504

N77-28346* c 32 — NASA-CASE-GSC-12053-1
US-PATENT-APPL-SN-667930
US-PATENT-CLASS-250-199
US-PATENT-CLASS-250-238
US-PATENT-4,033,662

N77-28385* c 33 — NASA-CASE-LEW-12444-1
US-PATENT-APPL-SN-583485
US-PATENT-CLASS-123-148CB
US PATENT-CLASS-123-148E
US-PATENT-CLASS-315-176
US-PATENT-4,033,316

N77-28486* c 37 — NASA-CASE-LEW-11158-1
US-PATENT-APPL-SN-663008
US-PATENT-CLASS-308-5R
US-PATENT-CLASS-308-73
US-PATENT-CLASS-308-9
US-PATENT-4,035,037

N77-28487* c 37 — NASA-CASE-MSC-14905-1
US-PATENT-APPL-SN-708795
US-PATENT-CLASS-128-DIG.12
US-PATENT-CLASS-128-214F
US-PATENT-CLASS-222-61
US-PATENT-CLASS-222-95
US-PATENT-4,033,479

N77-28511* c 39 — NASA-CASE-MFS-23299-1
US-PATENT-APPL-SN-700672
US-PATENT-CLASS-73-67.7
US-PATENT-CLASS-73-88R
US-PATENT-4,033,182

N77-28716* c 52 — NASA-CASE-LEW-12258-1
US-PATENT-APPL-SN-676433
US-PATENT-CLASS-128-1R
US-PATENT-CLASS-128-303R
US-PATENT-4,033,349

N77-28717* c 52 — NASA-CASE-MSC-14823-1
US-PATENT-APPL-SN-637269
US-PATENT-CLASS-128-DIG.4
US-PATENT-CLASS-128.2.1E
US-PATENT-CLASS-128-410
US-PATENT-4,033,334

N77-28802* c 74 — NASA-CASE-GSC-11989-1
US-PATENT-APPL-SN-645500
US-PATENT-CLASS-350-162SF
US-PATENT-CLASS-350-202
US-PATENT-CLASS-350-299
US-PATENT-4,035,062

N77-28933* c 74 — NASA-CASE-NPO-13707-1
US-PATENT-APPL-SN-617202
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-310
US-PATENT-CLASS-350-320
US-PATENT-4,035,065

N77-28260* c 26 — NASA-CASE-MFS-23405-1
US-PATENT-APPL-SN-710267
US-PATENT-CLASS-228-124
US-PATENT-CLASS-228-263
US-PATENT-4,033,503

N77-30236* c 27 — NASA-CASE-NPO-13620-1
US-PATENT-APPL-SN-666992
US-PATENT-CLASS-210-24
US-PATENT-CLASS-536-105
US-PATENT-CLASS-536-53
US-PATENT-CLASS-536-56
US-PATENT-CLASS-536-58
US-PATENT-CLASS-536-84
US-PATENT-4,041,233

N77-30237* c 27 — NASA-CASE-MFS-23345-1
US-PATENT-APPL-SN-696989
US-PATENT-CLASS-106-292
US-PATENT-CLASS-106-296
US-PATENT-CLASS-106-299
US-PATENT-4,029,347

N77-30306* c 30 — NASA-CASE-GSC-12017-1
US-PATENT-APPL-SN-645510
US-PATENT-CLASS-325-30
US-PATENT-CLASS-325-42
US-PATENT-CLASS-325-473
US-PATENT-CLASS-325-65
US-PATENT-4,041,391

N77-30309* c 32 — NASA-CASE-GSC-11898-1
US-PATENT-APPL-SN-566494
US-PATENT-CLASS-179-15A
US-PATENT-CLASS-179-15P
US-PATENT-4,039,754

N77-30368* c 30 — NASA-CASE-NPO-13912-1
US-PATENT-APPL-SN-694855
US-PATENT-CLASS-307-64
US-PATENT-CLASS-363-53
US-PATENT-CLASS-363-70
US-PATENT-4,039,925

N77-30399* c 34 — NASA-CASE-MFS-19287-1
US-PATENT-APPL-SN-641802
US-PATENT-CLASS-137-207
US-PATENT-CLASS-137-209
US-PATENT-CLASS-60-258
US-PATENT-CLASS-62-55
US-PATENT-4,039,000

N77-30436* c 36 — NASA-CASE-MFS-23175-1
US-PATENT-APPL-SN-667928
US-PATENT-CLASS-324-163
US-PATENT-CLASS-324-165
US-PATENT-CLASS-324-174
US-PATENT-CLASS-340-271
US-PATENT-CLASS-340-347P
US-PATENT-CLASS-340-347SY
US-PATENT-4,039-946

N77-30749* c 54 — NASA-CASE-KSC-11004-1
US-PATENT-APPL-SN-710032
US-PATENT-CLASS-3-2
US-PATENT-CLASS-3-21
US-PATENT-4,038,705

N77-31308* c 27 — NASA-CASE-NPO-11809-2
US-PATENT-APPL-SN-228229
US-PATENT-APPL-SN-674700
US-PATENT-CLASS-210-DIG.27
US-PATENT-CLASS-210-40
US-PATENT-CLASS-260-2.5A
US-PATENT-CLASS-260-2.5AM
US-PATENT-CLASS-260-2.5AY
US-PATENT-CLASS-260-77.5AP
US-PATENT-4,039-489

N77-31350* c 32 — NASA-CASE-GSC-12075-1
US-PATENT-APPL-SN-562499
US-PATENT-CLASS-343-17.7
US-PATENT-4,042,926

N77-31404* c 33 — NASA-CASE-ARC 10897-1
US-PATENT-APPL-SN-625781
US-PATENT-CLASS-323-93
US-PATENT-CLASS-324-60
US-PATENT-CLASS-340-210
US-PATENT-CLASS-340-347M
US-PATENT-4,040,041

N77-31460* c 35 — NASA-CASE-MFS-23116-1
US-PATENT-APPL-SN-691256
US-PATENT-CLASS-358-212
US-PATENT-4,040,750

N77-31497* c 37 — NASA-CASE-NPO-13871-1
US-PATENT-APPL-SN-584822
US-PATENT-CLASS-123-DIG.8
US-PATENT-CLASS-123-119A
US-PATENT-CLASS-123-122AB
US-PATENT-CLASS-123-3
US-PATENT-CLASS-123-32
US-PATENT-CLASS-123-59E
US-PATENT-4,041,910

N77-31801* c 44 — NASA-CASE-LEW-12587-1
US-PATENT-APPL-SN-717319
US-PATENT-CLASS-136-89AC
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-52-173R
US-PATENT-CLASS-52-61
US-PATENT-4,040,867

N77-32148* c 07 — NASA-CASE-LEW-12312-1
US-PATENT-APPL-SN-654787
US-PATENT-CLASS-416-135
US-PATENT-CLASS-416-180
US-PATENT-CLASS-416-193A
US-PATENT-CLASS-416-241A
US-PATENT-4,045,160

N77-32255* c 25 — NASA-CASE-NPO-13566-1
US-PATENT-APPL-SN-663316
US-PATENT-CLASS-204-DIG.11
US-PATENT-CLASS-204-157.1R
US-PATENT-CLASS-204-158R
US-PATENT-CLASS-204-162R
US-PATENT-CLASS-250-527
US-PATENT-4,045,359

N77-32270* c 26 — NASA-CASE-LEW-12906-1
US-PATENT-APPL-SN-691838
US-PATENT-CLASS-148-32
US-PATENT-CLASS-75-170
US-PATENT-4,045,255

N77-32280* c 26 — NASA-CASE-LEW-12270-1
US-PATENT-APPL-SN-645507
US-PATENT-CLASS-148-32.5

US-PATENT-CLASS-75-170
US-PATENT-4,046,560
N77-32308* c 27 ——— NASA-CASE-GSC-12110-1
US-PATENT-APPL-SN-662435
US-PATENT-CLASS-156-643
US-PATENT-CLASS-156-663
US-PATENT-4,046,619
N77-32342* c 32 ——— NASA-CASE-NPO-13087-1
US-PATENT-APPL-SN-589110
US-PATENT-CLASS-343-10
US-PATENT-CLASS-343-100CL
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5DP
US-PATENT-4,045,796
N77-32413* c 34 ——— NASA-CASE-GSC-11998-1
US-PATENT-APPL-SN-579880
US-PATENT-CLASS-165-105
US-PATENT-4,046,190
N77-32454* c 35 ——— NASA-CASE-LEW-12080-1
US-PATENT-APPL-SN-629457
US-PATENT-CLASS-136-202
US-PATENT-CLASS-136-236R
US-PATENT-CLASS-136-240
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N77-32455* c 35 ——— NASA-CASE-NPO-13702-1
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US-PATENT-CLASS-324-59
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N77-32456* c 35 ——— NASA-CASE-GSC-12143-1
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US-PATENT-CLASS-73-421.5R
US-PATENT-4,046,012
N77-32479* c 36 ——— NASA-CASE-LEW-12184-1
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US-PATENT-4,043,674
N77-32499* c 37 ——— NASA-CASE-MSC-19535-1
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US-PATENT-CLASS-292-110
US-PATENT-4,045,083
N77-32500* c 37 ——— NASA-CASE-LEW-12527-1
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US-PATENT-CLASS-308-196
US-PATENT-CLASS-308-72
US-PATENT-4,046,434
N77-32501* c 37 ——— NASA-CASE-LEW-12477-1
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US-PATENT-4,046,435
N77-32580* c 44 ——— NASA-CASE-NPO-13675-1
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US-PATENT-4,045,315
N77-32581* c 44 ——— NASA-CASE-NPO-13510-1
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US-PATENT-CLASS-165-107
US-PATENT-CLASS-165-2
US-PATENT-CLASS-62-4
US-PATENT-4,044,821
N77-32582* c 44 ——— NASA-CASE-NPO-13810-1
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US-PATENT-CLASS-60-641
US-PATENT-4,044,753
N77-32583* c 44 ——— NASA-CASE-NPO-13738-1
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US-PATENT-CLASS-350-320
US-PATENT-CLASS-427-130
US-PATENT-CLASS-427-47
US-PATENT-CLASS-52-2
US-PATENT-4,046,462
N77-32721* c 54 ——— NASA-CASE-ARC-10756-1
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US-PATENT-CLASS-214-16C
US-PATENT-CLASS-214-1CM
US-PATENT-4,046,262
N77-32732* c 54 ——— NASA-CASE-MSC-14771-1
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US-PATENT-CLASS-55-269
US-PATENT-4,046,529
N77-32731* c 60 ——— NASA-CASE-GSC-11939-3
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US-PATENT-4,045,792
N77-32919* c 76 ——— NASA-CASE-MFS-23001-1
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US-PATENT-CLASS-156-601
US-PATENT-CLASS-156-619
US-PATENT-CLASS-156-625
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US-PATENT-CLASS-428-139
US-PATENT-CLASS-428-73
US-PATENT-CLASS-428-402
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US-PATENT-CLASS-431-158
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US-PATENT-4,052,144
N78-10225* c 25 ——— NASA-CASE-MSC-14831-1
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US-PATENT-CLASS-252-472
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US-PATENT-CLASS-330-2
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US-PATENT-CLASS-318-227
US-PATENT-CLASS-318-230
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N78-10377* c 33 ——— NASA-CASE-NPO-13972-1
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US-PATENT-CLASS-363-60
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N78-10428* c 35 ——— NASA-CASE-MSC-14757-1
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US-PATENT-CLASS-60-574
US-PATENT-4,051,977
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US-PATENT-CLASS-250-399
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N78-10467* c 37 ——— NASA-CASE-LEW-12321-1
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US-PATENT-CLASS-123-41.33
US-PATENT-CLASS-137-104
US-PATENT-CLASS-415-180
US-PATENT-CLASS-60-39.28R
US-PATENT-CLASS-60-39.66
US-PATENT-4,041,697
N78-10468* c 37 ——— NASA-CASE-LEW-12313-1
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US-PATENT-CLASS-415-141
US-PATENT-CLASS-416-220R
US-PATENT-CLASS-416-248
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N78-10483* c 39 ——— NASA-CASE-NPO-13731-1
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N78-10539* c 43 ——— NASA-CASE-GSC-11976-1
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N78-10554* c 44 ——— NASA-CASE-NPO-13734-1
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US-PATENT-CLASS-350-299
US-PATENT-4,051,834
N78-10686* c 50 ——— NASA-CASE-ARC-10916-1
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N78-10709* c 60 ——— NASA-CASE-GSC-11868-2
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US-PATENT-APPL-SN-657887
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US-PATENT-CLASS-350-100
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US-PATENT-CLASS-264-347
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US-PATENT-CLASS-65-DIG.7
US-PATENT-CLASS-65-102
US-PATENT-CLASS-65-2
US-PATENT-CLASS-65-32
US-PATENT-CLASS-65-45
US-PATENT-CLASS-65-61
US-PATENT-CLASS-73-505
US-PATENT-4,052,181
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US-PATENT-CLASS-55-28.6
US-PATENT-CLASS-55-3
US-PATENT-CLASS-62-50
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N78-13320* c 50 ——— NASA-CASE-MFS-23270-1
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US-PATENT-CLASS-328-325
US-PATENT-CLASS-357-4
US-PATENT-CLASS-357-5
US-PATENT-CLASS-357-73
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US-PATENT-CLASS-252-340
US-PATENT-CLASS-252-357
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US-PATENT-CLASS-313/61S
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US-PATENT-CLASS-427-130
US-PATENT-CLASS-427-248.1
US-PATENT-CLASS-427-250
US-PATENT-CLASS-427-255
US-PATENT-4,055,699
N78-13538* c 44 ——— NASA-CASE-NPO-13480-1
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US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-30
US-PATENT-4,053,916
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US-PATENT-CLASS-356-106
US-PATENT-4,053,229
N78-14098* c 24 ——— NASA-CASE-ARC-11042-1
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US-PATENT-CLASS-60-639
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N78-14104* c 25 ——— NASA-CASE-ARC-10997-1
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US-PATENT-CLASS-204-298R
US-PATENT-4,091,101
N78-14164* c 27 ——— NASA-CASE-NPO-13997-1
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US-PATENT-CLASS-428-524
US-PATENT-CLASS-88-97
US-PATENT-4,091,959
N78-14364* c 36 ——— NASA-CASE-ARC-11040-1
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US-PATENT-CLASS-73-49
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N78-14366* c 36 ——— NASA-CASE-MFS-13255-1
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US-PATENT-CLASS-356-160
US-PATENT-CLASS-356-199
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US-PATENT-CLASS-166-259
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N78-14625* c 44 NASA-CASE-LEW-12039-1
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US-PATENT-CLASS-320-18
US-PATENT-CLASS-320-40
US-PATENT-CLASS-320-6
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N78-14773* c 52 NASA-CASE-LEW-12566-1
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US-PATENT-CLASS-128-305
US-PATENT-4,081,148
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US-PATENT-CLASS-204-301
US-PATENT-CLASS-210-182
US-PATENT-CLASS-210-96M
US-PATENT-CLASS-23-253A
US-PATENT-4,081,170
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US-PATENT-CLASS-178-01R
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US-PATENT-CLASS-358-142
US-PATENT-4,081,577
N78-15190* c 24 NASA-CASE-ARC-10813-1
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US-PATENT-CLASS-260-2.5R
US-PATENT-CLASS-428-117
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US-PATENT-CLASS-428-71
US-PATENT-CLASS-428-73
US-PATENT-CLASS-428-920
US-PATENT-4,081,812
N78-15210* c 28 NASA-CASE-LAR-12046-1
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US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-73-23
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N78-15270* c 27 NASA-CASE-LEW-12053-1
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US-PATENT-CLASS-528-225
US-PATENT-CLASS-544-183
US-PATENT-4,081,956
N78-15323* c 32 NASA-CASE-NPO-13636-1
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US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-63
US-PATENT-CLASS-343-170
US-PATENT-4,081,674
N78-15401* c 95 NASA-CASE-NPO-13608-1
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US-PATENT-CLASS-250-418TV
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US-PATENT-CLASS-73-630
US-PATENT-CLASS-73-669
US-PATENT-4,082,227
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US-PATENT-CLASS-128-400
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US-PATENT-APPL-SN-398818
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US-PATENT-CLASS-428-336
US-PATENT-CLASS-428-426

US-PATENT-CLASS-428-428
US-PATENT-4,082,898
N78-15880* c 74 NASA-CASE-MFS-22409-2
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US-PATENT-APPL-SN-626183
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US-PATENT-CLASS-250-320
US-PATENT-4,083,068
N78-16360* c 37 NASA-CASE-NPO-13619-1
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US-PATENT-CLASS-74-61
US-PATENT-CLASS-74-63
US-PATENT-4,082,245
N78-16387* c 38 NASA-CASE-LAR-11480-1
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US-PATENT-CLASS-358-108
US-PATENT-4,083,282
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N78-17058* c 07 NASA-CASE-LEW-12317-1
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US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-271
US-PATENT-4,088,460
N78-17096* c 07 NASA-CASE-LEW-12390-1
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US-PATENT-CLASS-74-417
US-PATENT-4,088,470
N78-17140* c 17 NASA-CASE-HQN-10880-1
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N78-17149* c 24 NASA-CASE-LAR-11698-2
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US-PATENT-CLASS-156-308
US-PATENT-CLASS-156-311
US-PATENT-CLASS-264-157
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US-PATENT-CLASS-260-32.8R
US-PATENT-CLASS-260-32.6NT
US-PATENT-CLASS-260-33.4R
US-PATENT-4,085,346
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US-PATENT-CLASS-75-261
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US-PATENT-CLASS-260-77.5AN
US-PATENT-CLASS-260-77.5AP
US-PATENT-CLASS-260-77.5AT
US-PATENT-CLASS-260-77.5SP
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N78-17214* c 27 NASA-CASE-NPO-10857

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US-PATENT-CLASS-313-176
US-PATENT-CLASS-313-180
US-PATENT-CLASS-313-184
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N78-17280* c 33 NASA-CASE-XLE-08284
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N78-17284* c 33 NASA-CASE-MSC-11235
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US-PATENT-CLASS-323-4
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N78-17288* c 33 NASA-CASE-GSC-10135
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US-PATENT-CLASS-307-60
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US-PATENT-CLASS-323-19
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N78-17335* c 34 NASA-CASE-ARC-10169
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N78-17337* c 34 NASA-CASE-ARC-10169
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US-PATENT-CLASS-165-32
US-PATENT-CLASS-165-96
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US-PATENT-CLASS-331-94.5T
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US-PATENT-CLASS-116-500
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US-PATENT-CLASS-269-21
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N78-17395* c 38 ..... NASA-CASE-NPO-13283
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US-PATENT-CLASS-235-156
US-PATENT-CLASS-235-181
US-PATENT-CLASS-250-572
US-PATENT-CLASS-356-237
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N78-17396* c 38 ..... NASA-CASE-NPO-13282
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US-PATENT-CLASS-356-237
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US-PATENT-CLASS-237-1A
US-PATENT-CLASS-60-641
US-PATENT-CLASS-62-4
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US-PATENT-CLASS-73-432R
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US-PATENT-CLASS-62-48
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US-PATENT-CLASS-29-252
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US-PATENT-CLASS-250-280
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US-PATENT-CLASS-260-33.6PQ
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US-PATENT-CLASS-260-33.8UA
US-PATENT-CLASS-260-37EP
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US-PATENT-CLASS-260-45.75W
US-PATENT-CLASS-260-45.85N
US-PATENT-CLASS-260-45.9R
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US-PATENT-CLASS-331-94.5P
US-PATENT-CLASS-331-94.5PE
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US-PATENT-CLASS-324-32
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US-PATENT-CLASS-343-119
US-PATENT-CLASS-343-16M
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US-PATENT-CLASS-340-174YC
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US-PATENT-CLASS-149-85
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US-PATENT-CLASS-260-606-5P
US-PATENT-CLASS-260-959
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US-PATENT-CLASS-526-23
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US-PATENT-CLASS-526-275
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US-PATENT-CLASS-428-427
US-PATENT-CLASS-428-428
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US-PATENT-CLASS-428-920
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US-PATENT-CLASS-65-60D
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US-PATENT-APPL-SN-562992
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US-PATENT-CLASS-260-49
US-PATENT-CLASS-260-63N
US-PATENT-CLASS-260-63R
US-PATENT-CLASS-260-65
US-PATENT-CLASS-260-78TF
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US-PATENT-CLASS-331-4
US-PATENT-CLASS-331-64
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US-PATENT-CLASS-307-230
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US-PATENT-CLASS-333-81R
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US-PATENT-APPL-SN-668771
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US-PATENT-CLASS-73-603
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US-PATENT-CLASS-416-244A
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US-PATENT-CLASS-324-77C
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US-PATENT-CLASS-340-146.1E
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US-PATENT-CLASS-96-60R
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US-PATENT-CLASS-343-5W
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US-PATENT-CLASS-308-160
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US-PATENT-CLASS-308-172
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US-PATENT-CLASS-308-9
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US-PATENT-CLASS-29-125
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US-PATENT-CLASS-219-302
US-PATENT-CLASS-62-514R
US-PATENT-CLASS-62-78
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US-PATENT-CLASS-44-51
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US-PATENT-CLASS-285-326
US-PATENT-CLASS-285-359
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US-PATENT-CLASS-60-39.66
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US-PATENT-CLASS-315-209SC
US-PATENT-CLASS-315-241R
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US-PATENT-CLASS-136-89SJ
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-30
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US-PATENT-CLASS-204-38B
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US-PATENT-CLASS-250-527
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US-PATENT-CLASS-427-75
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US-PATENT-CLASS-156-DIG.65
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-608
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US-PATENT-APPL-SN-786913
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US-PATENT-4,122,712
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US-PATENT-CLASS-210-63R
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US-PATENT-CLASS-165-169

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US-PATENT-CLASS-324-99D
US-PATENT-CLASS-330-2
US-PATENT-CLASS-330-51
US-PATENT-CLASS-330-86
US-PATENT-4,109,213

N79-22474* c 37 ..... NASA-CASE-MFS-23646-1
US-PATENT-APPL-SN-891372
US-PATENT-CLASS-138-96R
US-PATENT-CLASS-220-266
US-PATENT-CLASS-239-265.15
US-PATENT-CLASS-239-288
US-PATENT-CLASS-277-192
US-PATENT-4,146,160
N79-22475* c 37 ..... NASA-CASE-LEW-11873-1
US-PATENT-APPL-SN-814006
US-PATENT-CLASS-277-62
US-PATENT-CLASS-277-96.1
US-PATENT-4,145,058
N79-22537* c 39 ..... NASA-CASE-LAR-12027-1
US-PATENT-APPL-SN-889670
US-PATENT-CLASS-73-770
US-PATENT-CLASS-73-810
US-PATENT-4,145,933
N79-22679* c 46 ..... NASA-CASE-NPO-14112-1
US-PATENT-APPL-SN-826326
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US-PATENT-CLASS-166-63
US-PATENT-CLASS-175-1
US-PATENT-CLASS-181-106
US-PATENT-CLASS-181-117
US-PATENT-4,148,375
N79-23097* c 06 ..... NASA-CASE-LAR-12215-1
US-PATENT-APPL-SN-858762
US-PATENT-CLASS-244-17.13
US-PATENT-CLASS-244-195
US-PATENT-CLASS-24[illegible]-83G
US-PATENT-CLASS-318-585
US-PATENT-CLASS-318-616
US-PATENT-CLASS-364-434
US-PATENT-4,148,452
N79-23310* c 32 ..... NASA-CASE-KSC-11023-1
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US-PATENT-CLASS-179-27CA
US-PATENT-CLASS-179-84VF
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US-PATENT-APPL-SN-885049
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US-PATENT-4,151,456
N79-23481* c 44 ..... NASA-CASE-MFS-23349-1
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US-PATENT-CLASS-181-120
US-PATENT-CLASS-340-12R
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US-PATENT-CLASS-179-1MF
US-PATENT-CLASS-181-148
US-PATENT-CLASS-340-8LF
US-PATENT-4,149,034
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US-PATENT-CLASS-156-617SP
US-PATENT-CLASS-423-345
US-PATENT-4,152,194
N79-24062* c 24 ..... NASA-CASE-ARC-11189-1
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US-PATENT-CLASS-204-195B
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N79-24203* c 32 ..... NASA-CASE-LAR-12375-1
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US-PATENT-CLASS-73-724
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N79-24210* c 32 ..... NASA-CASE-NPO-13841-1
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US-PATENT-CLASS-363-71
US-PATENT-CLASS-363-97
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US-PATENT-CLASS-363-71
US-PATENT-CLASS-363-95
US-PATENT-4,149,233
N79-24285* c 34 ..... NASA-CASE-MSC-16841-1
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US-PATENT-CLASS-210-142
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US-PATENT-CLASS-228-6
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US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-739
US-PATENT-CLASS-29-809
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US-PATENT-CLASS-264-34
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US-PATENT-CLASS-264-516
US-PATENT-CLASS-264-70
US-PATENT-CLASS-264-71
US-PATENT-CLASS-350-292
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US-PATENT-CLASS-350-296
US-PATENT-CLASS-405-229
US-PATENT-CLASS-405-263
US-PATENT-4,149,817
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US-PATENT-APPL-SN-782362
US-PATENT-CLASS-126-271
US-PATENT-CLASS-126-400
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-299
US-PATENT-4,149,521
N79-24651* c 54 ..... NASA-CASE-ARC-11058-2
US-PATENT-APPL-SN-753965
US-PATENT-APPL-SN-883094
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US-PATENT-CLASS-285-235
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US-PATENT-4,151,612
N79-24652* c 54 ..... NASA-CASE-NPO-13906-1
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US-PATENT-CLASS-3-12.5
US-PATENT-CLASS-414-6
US-PATENT-4,149,278
N79-24976* c 05 ..... NASA-CASE-LEW-11890-1
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US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-244-53B
US-PATENT-4,154,256
N79-25142* c 24 ..... NASA-CASE-MSC-12737-1
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US-PATENT-CLASS-244-163
US-PATENT-CLASS-427-350
US-PATENT-CLASS-427-372A
US-PATENT-CLASS-428-137
US-PATENT-CLASS-428-282
US-PATENT-CLASS-428-290
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-920
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N79-25143* c 24 ..... NASA-CASE-GSC-11577-3
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US-PATENT-APPL-SN-506803
US-PATENT-APPL-SN-645502
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US-PATENT-CLASS-220-2.2
US-PATENT-CLASS-85-43
US-PATENT-3,859,714
US-PATENT-4,155,475
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US-PATENT-APPL-SN-848420
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US-PATENT-CLASS-73-82
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US-PATENT-CLASS-526-7
US-PATENT-CLASS-526-9
US-PATENT-4,154,912
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NASA-CASE-NPO-14200-1
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US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-136-89PC
US-PATENT-CLASS-136-89SJ
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N79-26075* c 12 ..... NASA-CASE-MFS-23480-1
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US-PATENT-CLASS-13-22
US-PATENT-CLASS-13-24
US-PATENT-CLASS-219-410
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N79-26100* c 15 ..... NASA-CASE-ARC-11104-1
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US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-260-830S
US-PATENT-CLASS-264-102
US-PATENT-CLASS-264-145
US-PATENT-CLASS-264-151
US-PATENT-CLASS-264-175
US-PATENT-CLASS-264-236
US-PATENT-CLASS-428-220
US-PATENT-CLASS-428-413
US-PATENT-CLASS-428-414
US-PATENT-CLASS-428-418
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-920
US-PATENT-4,158,752
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US-PATENT-APPL-SN-862182
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N79-26439* c 43 ..... NASA-CASE-MFS-23726-1
US-PATENT-APPL-SN-848418
US-PATENT-CLASS-105-181
US-PATENT-CLASS-296-1
US-PATENT-CLASS-33-1N
US-PATENT-CLASS-33-1Q
US-PATENT-CLASS-33-174L
US-PATENT-CLASS-364-560
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N79-26474* c 44 ..... NASA-CASE-LEW-13150-1
US-PATENT-APPL-SN-914280
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US-PATENT-CLASS-429-15
US-PATENT-4,159,366
N79-26475* c 44 ..... NASA-CASE-MFS-23540-1
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US-PATENT-CLASS-29-577
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US-PATENT-CLASS-29-580
US-PATENT-CLASS-357-45
US-PATENT-4,156,309
N79-26771* c 52 ..... NASA-CASE-ARC-10994-2
US-PATENT-APPL-SN-759965
US-PATENT-CLASS-128-660
US-PATENT-CLASS-73-626
US-PATENT-4,154,230
N79-26772* c 52 ..... NASA-CASE-KSC-11089-1
US-PATENT-APPL-SN-876438
US-PATENT-CLASS-3-1.9
US-PATENT-CLASS-3-12
US-PATENT-CLASS-3-2
US-PATENT-4,158,895
N79-27838* c 52 ..... NASA-CASE-NPO-13910-1
US-PATENT-APPL-SN-712270
US-PATENT-CLASS-128-329R
US-PATENT-CLASS-128-639
US-PATENT-4,154,229
N79-28253* c 25 ..... NASA-CASE-NPO-13650-1
US-PATENT-APPL-SN-704488
US-PATENT-CLASS-118-49
US-PATENT-CLASS-23-252R
US-PATENT-CLASS-248
US-PATENT-CLASS-253
US-PATENT-CLASS-337
US-PATENT-CLASS-349
US-PATENT-CLASS-423-33-5
US-PATENT-CLASS-427-95
US-PATENT-4,030,296
N79-28307* c 27 ..... NASA-CASE-LEW-12053-2
US-PATENT-APPL-SN-796263
US-PATENT-CLASS-260-37N
US-PATENT-CLASS-260-42
US-PATENT-CLASS-260-53
US-PATENT-CLASS-526-126
US-PATENT-CLASS-526-127
US-PATENT-CLASS-526-128
US-PATENT-CLASS-526-221
US-PATENT-CLASS-526-223

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US-PATENT-CLASS-528-336
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US-PATENT-CLASS-528-338
US-PATENT-CLASS-528-342
US-PATENT-CLASS-544-193
US-PATENT-4,159,262

N79-28342* c 26 ..... NASA-CASE-NPO-14260-1
US-PATENT-APPL-SN-861390
US-PATENT-CLASS-149-19.4
US-PATENT-CLASS-149-19.9
US-PATENT-CLASS-149-20
US-PATENT-4,158,583

N79-28370* c 31 ..... NASA-CASE-MFS-23721-1
US-PATENT-APPL-SN-847277
US-PATENT-CLASS-343-14
US-PATENT-CLASS-343-5NA
US-PATENT-4,161,731

N79-28415* c 33 ..... NASA-CASE-MSC-16697-1
US-PATENT-APPL-SN-885067
US-PATENT-CLASS-307-119
US-PATENT-CLASS-307-98
US-PATENT-CLASS-361-170
US-PATENT-4,161,661

N79-28416* c 33 ..... NASA-CASE-GSC-12171-1
US-PATENT-APPL-SN-878542
US-PATENT-CLASS-343-909
US-PATENT-4,160,254

N79-28527* c 35 ..... NASA-CASE-NPO-13953-1
US-PATENT-APPL-SN-880727
US-PATENT-CLASS-356-237
US-PATENT-CLASS-356-404
US-PATENT-4,160,601

N79-28549* c 37 ..... NASA-CASE-GSC-12297-1
US-PATENT-APPL-SN-880838
US-PATENT-CLASS-165-105
US-PATENT-CLASS-357-74
US-PATENT-CLASS-357-79
US-PATENT-CLASS-357-81
US-PATENT-CLASS-357-82
US-PATENT-CLASS-357-83
US-PATENT-4,161,747

N79-28550* c 37 ..... NASA-CASE-GSC-12274-1
US-PATENT-APPL-SN-909100
US-PATENT-CLASS-251-7
US-PATENT-CLASS-72-436
US-PATENT-CLASS-72-451
US-PATENT-CLASS-72-470
US-PATENT-4,159,634

N79-28551* c 37 ..... NASA-CASE-ARC-11052-1
US-PATENT-APPL-SN-826202
US-PATENT-CLASS-414-4
US-PATENT-4,160,508

N79-31228* c 09 ..... NASA-CASE-LAR-12149-2
US-PATENT-APPL-SN-829314
US-PATENT-APPL-SN-928131
US-PATENT-CLASS-35-12E
US-PATENT-CLASS-35-12H
US-PATENT-4,164,079

N79-31347* c 24 ..... NASA-CASE-GSC-12303-1
US-PATENT-APPL-SN-862880
US-PATENT-CLASS-106-74
US-PATENT-CLASS-106-84
US-PATENT-4,162,169

N79-31523* c 34 ..... NASA-CASE-GSC-12253-1
US-PATENT-APPL-SN-853677
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-32
US-PATENT-CLASS-244-1R
US-PATENT-CLASS-244-163
US-PATENT-4,162,701

N79-31706* c 43 ..... NASA-CASE-MFS-23725-1
US-PATENT-APPL-SN-848793
US-PATENT-CLASS-250-253
US-PATENT-CLASS-250-272
US-PATENT-4,165,460

N79-31752* c 44 ..... NASA-CASE-NPC-14205-1
US-PATENT-APPL-SN-920879
US-PATENT-CLASS-106-1
US-PATENT-CLASS-106-1.2
US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-252-514
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-589
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-65
US-PATENT-CLASS-357-67
US-PATENT-CLASS-427-86
US-PATENT-4,163,678

N79-31753* c 44 ..... NASA-CASE-NPO-14467-1
US-PATENT-APPL-SN-946094
US-PATENT-CLASS-136-89PC
US-PATENT-4,162,926

N79-33316* c 27 ..... NASA-CASE-LAR-12054-1
US-PATENT-APPL-SN-839963
US-PATENT-CLASS-264-137
US-PATENT-CLASS-428-474
US-PATENT-CLASS-526-229
US-PATENT-4,166,170

N79-33392* c 33 ..... NASA-CASE-XMF-04494-1
US-PATENT-APPL-SN-547643
US-PATENT-CLASS-200-83
US-PATENT-3,378,657

N79-33393* c 33 ..... NASA-CASE-XMS-01244-1
US-PATENT-APPL-SN-20370
US-PATENT-CLASS-200-114
US-PATENT-3,123,692

N79-33449* c 35 ..... NASA-CASE-XGS-01245-1
US-PATENT-APPL-SN-134619
US-PATENT-CLASS-338-18
US-PATENT-3,119,086

N79-33450* c 35 ..... NASA-CASE-XGS-01293-1
US-PATENT-APPL-SN-150690
US-PATENT-CLASS-73-400
US-PATENT-3,190,124

N79-33467* c 37 ..... NASA-CASE-XMS-01077-1
US-PATENT-APPL-SN-228049
US-PATENT-CLASS-312-319
US-PATENT-3,123,416

N79-33468* c 37 ..... NASA-CASE-HQN-00573-1
US-PATENT-APPL-SN-129379
US-PATENT-CLASS-137-14
US-PATENT-3,134,389

N79-33469* c 37 ..... NASA-CASE-XGS-01286-1
US-PATENT-APPL-SN-142583
US-PATENT-CLASS-251-172
US-PATENT-3,233,862

N79-34011* c 74 ..... NASA-CASE-NPO-14066-1
US-PATENT-APPL-SN-827464
US-PATENT-CLASS-250-216
US-PATENT-CLASS-250-551
US-PATENT-4,166,959

N80-10278* c 20 ..... NASA-CASE-MFS-23642-1
US-PATENT-APPL-SN-923758
US-PATENT-CLASS-137-177
US-PATENT-CLASS-137-209
US-PATENT-CLASS-137-574
US-PATENT-CLASS-137-576
US-PATENT-CLASS-137-590
US-PATENT-CLASS-244-135R
US-PATENT-4,168,718

N80-10356* c 27 ..... NASA-CASE-MSC-14903-2
US-PATENT-APPL-SN-706424
US-PATENT-APPL-SN-907435
US-PATENT-CLASS-260-926
US-PATENT-4,092,466
US-PATENT-4,168,287

N80-10374* c 28 ..... NASA-CASE-NPO-13849-1
NASA-CASE-NPO-13907-1
US-PATENT-APPL-SN-868783
US-PATENT-CLASS-123-DIG.12
US-PATENT-CLASS-123-179R
US-PATENT-CLASS-123-3
US-PATENT CLASS-23-288R
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-DIG.8
US-PATENT-CLASS-48-10-3
US-PATENT-CLASS-48-102A
US-PATENT-CLASS-48-107
US-PATENT-CLASS-48-117
US-PATENT-CLASS-48-61
US-PATENT-CLASS-60-300
US-PATENT-CLASS-60-606
US-PATENT-4,033,133

N80-10494* c 37 ..... NASA-CASE-NPO-14364-1
US-PATENT-APPL-SN-880728
US-PATENT-CLASS-210-166
US-PATENT-CLASS-210-340
US-PATENT-CLASS-239-102
US-PATENT-CLASS-239-302
US-PATENT-CLASS-422-187
US-PATENT-CLASS-422-199
US-PATENT-CLASS-422-208
US-PATENT-CLASS-422-235
US-PATENT-CLASS-422-242
US-PATENT-CLASS-423-350
US-PATENT-4,169,129

N80-10507* c 39 ..... NASA-CASE-NPO-14192-1
US-PATENT-APPL-SN-830562
US-PATENT-CLASS-181-102
US-PATENT-CLASS-181-105
US-PATENT-CLASS-367-26
US-PATENT-CLASS-467-28
US-PATENT-4,168,483

N80-10709* c 46 ..... NASA-CASE-NPO-14231-1
US-PATENT-APPL-SN-903019
US-PATENT-CLASS-175-78
US-PATENT-CLASS-73-155
US-PATENT-4,167,111

N80-10799* c 54 ..... NASA-CASE-MSC-16182-1
US-PATENT-APPL-SN-780938
US-PATENT-CLASS-128-142R
US-PATENT-CLASS-128-191R
US-PATENT-CLASS-128-212
US-PATENT-4,168,706

N80-14107* c 05 ..... NASA-CASE-ARC-11106-1
US-PATENT-APPL-SN-831633
US-PATENT-CLASS-415-199
US-PATENT-CLASS-416-228
US-PATENT-CLASS-416-238
US-PATENT-4,168,939

N80-14183* c 18 ..... NASA-CASE-GSC-12331-1
US-PATENT-APPL-SN-943088
US-PATENT-CLASS-343-880
US-PATENT-CLASS-343-883
US-PATENT-4,176,360

N80-14188* c 20 ..... NASA-CASE-XLE-02062-1
US-PATENT-APPL-SN-545793
US-PATENT-CLASS-60-203
US-PATENT-CLASS-60-259
US-PATENT-4,171,615

N80-14229* c 26 ..... NASA-CASE-NPO-14474-1
US-PATENT-APPL-SN-918537
US-PATENT-CLASS-423-149
US-PATENT-CLASS-423-293
US-PATENT-CLASS-423-348
US-PATENT-CLASS-423-417
US-PATENT-CLASS-423-625
US-PATENT-4,172,883

N80-14281* c 32 ..... NASA-CASE-NPO-13830-1
US-PATENT-APPL-SN-703905
US-PATENT-APPL-SN-834257
US-PATENT-CLASS-333-81R
US-PATENT-CLASS-343-18A
US-PATENT-CLASS-343-909
US-PATENT-4,164,718

N80-14330* c 33 ..... NASA-CASE-NPO-10857-1
US-PATENT-APPL-SN-888362
US-PATENT-CLASS-315-145
US-PATENT-CLASS-315-260
US-PATENT-CLASS-315-334
US-PATENT-3,635,537

N80-14332* c 33 ..... NASA-CASE-NPO-14350-1
US-PATENT-APPL-SN-921627
US-PATENT-CLASS-250-310
US-PATENT-CLASS-250-492A
US-PATENT-CLASS-324-158T
US-PATENT-4,172,228

N80-14371* c 35 ..... NASA-CASE-LAR-11690-1
US-PATENT-APPL-SN-928129
US-PATENT-CLASS-73-655
US-PATENT-CLASS-73-661
US-PATENT-4,171,645

N80-14384* c 38 ..... NASA-CASE-GSC-12237-1
US-PATENT-APPL-SN-837795
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-331-94.5P
US-PATENT-4,173,001

N80-14395* c 37 ..... NASA-CASE-XNP-08835-1
US-PATENT-APPL-SN-534931
US-PATENT-CLASS-204-224
US-PATENT-3,352,774

N80-14397* c 37 ..... NASA-CASE-MFS-23284-1
US-PATENT-APPL-SN-753103
US-PATENT-CLASS-204-180G
US-PATENT-CLASS-204-299R
US-PATENT-4,040,940

N80-14398* c 37 ..... NASA-CASE-GSC-12322-1
US-PATENT-APPL-SN-907436
US-PATENT-CLASS-244-161
US-PATENT-CLASS-269-156
US-PATENT-CLASS-294-113
US-PATENT-CLASS-294-86R
US-PATENT-CLASS-414-1
US-PATENT-4,173,324

N80-14423* c 43 ..... NASA-CASE-MFS-23720-2
US-PATENT-APPL-SN-848421
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,157,655

N80-14472* c 44 ..... NASA-CASE-LEW-12586-1
US-PATENT-APPL-SN-916655
US-PATENT-CLASS-307-63
US-PATENT-CLASS-307-66
US-PATENT-CLASS-323-15
US-PATENT-CLASS-323-19
US-PATENT-4,175,249

N80-14473* c 44 ..... NASA-CASE-MFS-23727-1
US-PATENT-APPL-SN-856465
US-PATENT-CLASS-126-438
US-PATENT-CLASS-126-442
US-PATENT-CLASS-350-295
US-PATENT-CLASS-350-296
US-PATENT-4,173,387

N80-14474* c 44 ..... NASA-CASE-NPO-13652-3

US-PATENT-APPL-SN-809890
US-PATENT-APPL-SN-891358
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-588
US-PATENT-CLASS-29-627
US-PATENT-4,133,697
US-PATENT-4,173,820

N80-14579* c 45 ..... NASA-CASE-NPO-14340-1
US-PATENT-APPL-SN-946992
US-PATENT-CLASS-210-57
US-PATENT-CLASS-210-63Z
US-PATENT-CLASS-422-9
US-PATENT-4,172,786

N80-14603* c 46 ..... NASA-CASE-NPO-14124-1
US-PATENT-APPL-SN-863024
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-112D
US-PATENT-4,170,776

N80-14684* c 52 ..... NASA-CASE-LEW-12955-1
US-PATENT-APPL-SN-829318
US-PATENT-CLASS-128-276
US-PATENT-4,157,718

N80-14687* c 52 ..... NASA-CASE-NPO-14101-1
US-PATENT-APPL-SN-772434
US-PATENT-CLASS-210-22
US-PATENT-CLASS-210-321B
US-PATENT-4,094,775

N80-14877* c 72 ..... NASA-CASE-NPO-14078-1
US-PATENT-APPL-SN-856486
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-282
US-PATENT-CLASS-250-423P
US-PATENT-4,158,775

N80-16116* c 25 ..... NASA-CASE-ARC-11107-1
US-PATENT-APPL-SN-883961
US-PATENT-CLASS-521-124
US-PATENT-CLASS-521-125
US-PATENT-CLASS-521-127
US-PATENT-CLASS-521-157
US-PATENT-CLASS-528-73
US-PATENT-4,177,333

N80-16158* c 27 ..... NASA-CASE-LAR-12099-1
US-PATENT-APPL-SN-906299
US-PATENT-CLASS-528-207
US-PATENT-CLASS-528-208
US-PATENT-4,180,648

N80-16163*# c 27 ..... NASA-CASE-NPO-14021-2
US-PATENT-APPL-SN-106188

N80-16261*# c 32 ..... NASA-CASE-NPO-14362-1
US-PATENT-APPL-CN-106118

N80-16321* c 36 ..... NASA-CASE-LAR-12176-1
US-PATENT-APPL-SN-929083
US-PATENT-CLASS-332-751
US-PATENT-CLASS-350-359
US-PATENT-CLASS-356-243
US-PATENT-CLASS-356-28
US-PATENT-4,176,950

N80-16452* c 44 ..... NASA-CASE-MFS-23518-3
US-PATENT-APPL-SN-829390
US-PATENT-APPL-SN-910793
US-PATENT-CLASS-126-417
US-PATENT-CLASS-126-901
US-PATENT-CLASS-428-620
US-PATENT-CLASS-428-650
US-PATENT-CLASS-428-658
US-PATENT-CLASS-428-675
US-PATENT-CLASS-428-680
US-PATENT-4,104,134
US-PATENT-4,177,325

N80-16714* c 51 ..... NASA-CASE-MSC-16260-1
US-PATENT-APPL-SN-876440
US-PATENT-CLASS-23-927
US-PATENT-CLASS-422-52
US-PATENT-CLASS-435-34
US-PATENT-4,176,007

N80-16715* c 51 ..... NASA-CASE-MFS-23683-1
US-PATENT-APPL-SN-017886
US-PATENT-CLASS-204-180R
US-PATENT-CLASS-204-299R
US-PATENT-CLASS-424-12
US-PATENT-4,181,589

N80-16725* c 52 ..... NASA-CASE-NPO-14092-1
US-PATENT-APPL-SN-807587
US-PATENT-CLASS-128-DIG.9
US-PATENT-CLASS-128-348
US-PATENT-CLASS-128-6
US-PATENT-CLASS-138-103
US-PATENT-CLASS-138-133
US-PATENT-CLASS-138-33
US-PATENT-CLASS-219-201
US-PATENT-CLASS-219-522
US-PATENT-4,176,662

N80-16936* c 06 ..... NASA-CASE-FRC-11009-1
US-PATENT-APPL-SN-910708
US-PATENT-CLASS-340-177VA
US-PATENT-CLASS-73-188
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-212
US-PATENT-4,194,149

N80-16939* c 07 ..... NASA-CASE-LEW-12971-1
US-PATENT-APPL-SN-858936
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-39.03
US-PATENT-CLASS-60-39.27
US-PATENT-4,184,327

N80-16997* c 20 ..... NASA-CASE-MSC-18179-1
US-PATENT-APPL-SN-931218
US-PATENT-CLASS-60-632
US-PATENT-4,183,217

N80-16231* c 31 ..... NASA-CASE-NPO-14382-1
US-PATENT-APPL-SN-891373
US-PATENT-CLASS-261-118
US-PATENT-CLASS-422-224
US-PATENT-CLASS-423-350
US-PATENT-4,188,368

N80-16252* c 32 ..... NASA-CASE-NPO-14152-1
US-PATENT-APPL-SN-809828
US-PATENT-CLASS-178-58R
US-PATENT-CLASS-179-15BA
US-PATENT-4,187,394

N80-16253* c 32 ..... NASA-CASE-NPO-14328-1
NASA-CASE-NPO-14579-1
NASA-CASE-NPO-14590-1
US-PATENT-APPL-SN-956160
US-PATENT-CLASS-325-305
US-PATENT-CLASS-325-307
US-PATENT-CLASS-325-419
US-PATENT-4,186,347

N80-16285* c 33 ..... NASA-CASE-NPO-14229-1
US-PATENT-APPL-SN-835419
US-PATENT-APPL-SN-949886
US-PATENT-CLASS-200-153S
US-PATENT-CLASS-200-304
US-PATENT-CLASS-333-262
US-PATENT-4,187,416

N80-16286* c 33 ..... NASA-CASE-GSC-12347-1
US-PATENT-APPL-SN-868249
US-PATENT-CLASS-174-142
US-PATENT-CLASS-174-73R
US-PATENT-4,185,164

N80-16287* c 33 ..... NASA-CASE-NPO-14224-1
US-PATENT-APPL-SN-951829
US-PATENT-CLASS-310-306
US-PATENT-CLASS-343-100R
US-PATENT-CLASS-343-100ST
US-PATENT-4,187,506

N80-16357* c 35 ..... NASA-CASE-NPO-14501-1
US-PATENT-APPL-SN-918535
US-PATENT-CLASS-264-40.4
US-PATENT-CLASS-73-343R
US-PATENT-CLASS-73-56
US-PATENT-4,185,493

N80-16358* c 35 ..... NASA-CASE-LAR-12269-1
US-PATENT-APPL-SN-934578
US-PATENT-CLASS-73-4R
US-PATENT-CLASS-73-40
US-PATENT-4,182,158

N80-16359* c 35 ..... NASA-CASE-GSC-12219-1
US-PATENT-APPL-SN-891356
US-PATENT-CLASS-325-383
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-356-216
US-PATENT-CLASS-73-355R
US-PATENT-4,178,100

N80-16364*# c 35 ..... NASA-CASE-NPO-13606-2
US-PATENT-APPL-SN-065676

N80-16372* c 36 ..... NASA-CASE-NPO-14254-1
US-PATENT-APPL-SN-876432
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-CLASS-333-24R
US-PATENT-4,187,470

N80-16393* c 37 ..... NASA-CASE-ARC-11157-1
US-PATENT-APPL-SN-935827
US-PATENT-CLASS-220-423
US-PATENT-CLASS-220-445
US-PATENT-CLASS-220-901
US-PATENT-4,184,609

N80-16400*# c 37 ..... NASA-CASE-NPO-12131-3
US-PATENT-APPL-SN-096255

N80-16406* c 43 ..... NASA-CASE-LAR-12344-1
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US-PATENT-CLASS-343-18B
US-PATENT-CLASS-343-18D
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5W
US-PATENT-4,184,155

N80-16550* c 44 ..... NASA-CASE-NPO-14303-1
NASA-CASE-NPO-14305-1
US-PATENT-APPL-SN-928133
US-PATENT-CLASS-156-104
US-PATENT-CLASS-156-278
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-303
US-PATENT-CLASS-156-312
US-PATENT-4,184,903

N80-16551* c 44 ..... NASA-CASE-NPO-14096-1
US-PATENT-APPL-SN-928128
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-404
US-PATENT-4,184,111

N80-16552* c 44 ..... NASA-CASE-LAR-11999-1
US-PATENT-APPL-SN-876299
US-PATENT-CLASS-250-211K
US-PATENT-CLASS-250-231SE
US-PATENT-4,184,072

N80-16567* c 48 ..... NASA-CASE-MFS-23862-1
US-PATENT-APPL-SN-951423
US-PATENT-CLASS-73-170A
US-PATENT-4,184,368

N80-16590* c 52 ..... NASA-CASE-LEW-12723-1
US-PATENT-APPL-SN-829317
US-PATENT-CLASS-128-276
US-PATENT-CLASS-128-780
US-PATENT-4,184,491

N80-16691* c 52 ..... NASA-CASE-ARC-11120-1
US-PATENT-APPL-SN-796256
US-PATENT-CLASS-128-748
US-PATENT-CLASS-128-903
US-PATENT-CLASS-73-724
US-PATENT-4,186,749

N80-16951* c 76 ..... NASA-CASE-GSC-12291-1
US-PATENT-APPL-SN-906298
US-PATENT-CLASS-125-23R
US-PATENT-CLASS-269-21
US-PATENT-CLASS-51-235
US-PATENT-CLASS-83-152
US-PATENT-CLASS-83-870
US-PATENT-4,184,472

N80-20224* c 02 ..... NASA-CASE-LAR-12261-1
US-PATENT-APPL-SN-964009
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-205L
US-PATENT-4,188,823

N80-20334* c 25 ..... NASA-CASE-NPO-14079-1
US-PATENT-APPL-SN-956573
US-PATENT-CLASS-250-307
US-PATENT-CLASS-250-308
US-PATENT-4,194,115

N80-20402* c 28 ..... NASA-CASE-LEW-12081-2
US-PATENT-APPL-SN-676432
US-PATENT-APPL-SN-837794
US-PATENT-CLASS-149-1
US-PATENT-CLASS-423-648R
US-PATENT-4,193,827

N80-20448* c 32 ..... NASA-CASE-NPO-14480-1
US-PATENT-APPL-SN-910707
US-PATENT-CLASS-325-14
US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-8
US-PATENT-CLASS-325-9
US-PATENT-4,189,675

N80-20487* c 33 ..... NASA-CASE-LEW-13148-1
US-PATENT-APPL-SN-964754
US-PATENT-CLASS-429-101
US-PATENT-CLASS-429-105
US-PATENT-CLASS-429-107
US-PATENT-CLASS-429-109
US-PATENT-4,192,910

N80-20559* c 35 ..... NASA-CASE-LAR-12304-1
US-PATENT-APPL-SN-928130
US-PATENT-CLASS-29-25.35
US-PATENT-CLASS-310-311
US-PATENT-CLASS-310-327
US-PATENT-CLASS-310-334
US-PATENT-CLASS-310-360
US-PATENT-4,195,244

N80-20560* c 35 ..... NASA-CASE-FRC-10093-1
US-PATENT-APPL-SN-879539
US-PATENT-CLASS-219-85CA
US-PATENT-CLASS-219-85CM
US-PATENT-CLASS-219-85R
US-PATENT-CLASS-338-2
US-PATENT-4,195,279

N80-20563* c 35 ..... NASA-CASE-NPO-14093-1
US-PATENT-APPL-SN-880729
US-PATENT-CLASS-358-346
US-PATENT-4,193,093

N80-20808* c 44 ..... NASA-CASE-NPO-14237-1
US-PATENT-APPL-SN-897831
US-PATENT-CLASS-128-260
US-PATENT-CLASS-149-15
US-PATENT-CLASS-149-37
US-PATENT-CLASS-220-429
US-PATENT-4,193,389

N80-20810* c 44 ..... NASA-CASE-LAR-12205-1
US-PATENT-APPL-SN-900843

US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-434
US-PATENT-CLASS-126-437
US-PATENT-CLASS-165-32
US-PATENT-4,192,290
N80-21138* c 74 ..... NASA-CASE-LAR-12178-1
US-PATENT-APPL-SN-953390
US-PATENT-CLASS-350-25
US-PATENT-CLASS-350-285
US-PATENT-CLASS-356-150
US-PATENT-CLASS-356-152
US-PATENT-4,189,234
N80-21140* c 74 ..... NASA-CASE-GSC-12357-1
US-PATENT-APPL-SN-943089
US-PATENT-CLASS-250-277CH
US-PATENT-CLASS-250-280
US-PATENT-CLASS-350-162R
US-PATENT-CLASS-356-334
US-PATENT-4,192,994
N80-21719* c 35 ..... NASA-CASE-GSC-12273-1
US-PATENT-APPL-SN-897830
US-PATENT-CLASS-244-165
US-PATENT-CLASS-244-170
US-PATENT-4,193,570
N80-21828* c 44 ..... NASA-CASE-MFS-23515-1
US-PATENT-APPL-SN-880726
US-PATENT-CLASS-415-101
US-PATENT-CLASS-415-2
US-PATENT-4,191,505
N80-23363* c 25 ..... NASA-CASE-ARC-11154-
US-PATENT-APPL-SN-921626
US-PATENT-CLASS-521-146
US-PATENT-CLASS-521-55
US-PATENT-CLASS-521-918
US-PATENT-CLASS-525-4
US-PATENT-CLASS-55-66
US-PATENT-CLASS-55-67
US-PATENT-CLASS-55-68
US-PATENT-CLASS-55-72
US-PATENT-4,198,792
N80-23419* c 26 ..... NASA-CASE-MFS-23816-1
US-PATENT-APPL-SN-974292
US-PATENT-CLASS-148-32
US-PATENT-CLASS-75-135
US-PATENT-CLASS-75-138
US-PATENT-CLASS-75-178R
US-PATENT-4,198,232
N80-23452* c 27 ..... NASA-CASE-ARC-10980-1
US-PATENT-APPL-SN-894407
US-PATENT-CLASS-204-171
US-PATENT-CLASS-210-23H
US-PATENT-CLASS-210-500M
US-PATENT-CLASS-427-245
US-PATENT-CLASS-427-41
US-PATENT-4,199,448
N80-23471* c 28 ..... NASA-CASE-NPO-14109-1
US-PATENT-APPL-SN-946990
US-PATENT-CLASS-149-108.4
US-PATENT-CLASS-23-300
US-PATENT-CLASS-23-302A
US-PATENT-CLASS-23-302R
US-PATENT-CLASS-23-302T
US-PATENT-4,198,209
N80-23524* c 32 ..... NASA-CASE-NPO-14519-1
US-PATENT-APPL-SN-006207
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-895
US-PATENT-4,199,764
N80-23539* c 33 ..... NASA-CASE-NPO-13804-1
US-PATENT-APPL-SN-766999
US-PATENT-CLASS-310-319
US-PATENT-CLASS-331-65
US-PATENT-CLASS-340-602
US-PATENT-CLASS-340-604
US-PATENT-4,197,530
N80-23653* c 37 ..... NASA-CASE-MSC-16936-1
US-PATENT-APPL-SN-936582
US-PATENT-CLASS-151-41.76
US-PATENT-4,193,435
N80-23654* c 37 ..... NASA-CASE-NPO-14473-1
US-PATENT-APPL-SN-938300
US-PATENT-CLASS-137-375
US-PATENT-CLASS-137-625.4
US-PATENT-CLASS-251-138
US-PATENT-CLASS-251-56
US-PATENT-4,195,666
N80-23655* c 37 ..... NASA-CASE-GSC-12318-1
US-PATENT-APPL-SN-894213
US-PATENT-CLASS-219-160
US-PATENT-CLASS-219-161
US-PATENT-CLASS-228-212
US-PATENT-CLASS-228-222
US-PATENT-CLASS-228-44.1R
US-PATENT-CLASS-269-287
US-PATENT-4,196,840
N80-23711* c 43 ..... NASA-CASE-MFS-23720-1
US-PATENT-APPL-SN-848419
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,195,512
N80-23969* c 52 ..... NASA-CASE-FRC-11012-1
US-PATENT-APPL-SN-928137
US-PATENT-CLASS-128-666
US-PATENT-CLASS-128-690
US-PATENT-4,198,988
N80-24149* c 74 ..... NASA-CASE-GSC-12348-1
US-PATENT-APPL-SN-929088
US-PATENT-CLASS-51-277
US-PATENT-CLASS-51-283R
US-PATENT-CLASS-65-61
US-PATENT-4,198,788
N80-24437* c 27 ..... NASA-CASE-LEW-13027-1
US-PATENT-APPL-SN-958575
US-PATENT-CLASS-427-164
US-PATENT-CLASS-427-38
US-PATENT-CLASS-427-40
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-474
US-PATENT-4,199,650
N80-24438* c 27 ..... NASA-CASE-MSC-14903-3
US-PATENT-APPL-SN-706424
US-PATENT-APPL-SN-907479
US-PATENT-CLASS-260-DIG.29
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US-PATENT-CLASS-525-336
US-PATENT-CLASS-525-340
US-PATENT-CLASS-525-374
US-PATENT-CLASS-525-375
US-PATENT-CLASS-526-261
US-PATENT-CLASS-526-275
US-PATENT-CLASS-526-276
US-PATENT-CLASS-526-278
US-PATENT-CLASS-528-481
US-PATENT-4,200,721
N80-24510* c 32 ..... NASA-CASE-NPO-14524-1
NASA-CASE-NPO-14527-1
US-PATENT-APPL-SN-957452
US-PATENT-CLASS-350-294
US-PATENT-CLASS-350-6.5
US-PATENT-CLASS-350-6.6
US-PATENT-CLASS-356-28.5
US-PATENT-4,201,468
N80-24573* c 34 ..... NASA-CASE-LEW-12441-2
US-PATENT-APPL-SN-559846
US-PATENT-APPL-SN-856462
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-267
US-PATENT-4,199,937
N80-24741* c 44 ..... NASA-CASE-NPO-14635-1
US-PATENT-APPL-SN-008212
US-PATENT-CLASS-136-89SG
US-PATENT-CLASS-156-DIG.64
US-PATENT-CLASS-156-605
US-PATENT-CLASS-156-617SP
US-PATENT-CLASS-252-62.3E
US-PATENT-4,210,622
N80-24906* c 46 ..... NASA-CASE-NPO-14558-1
US-PATENT-APPL-SN-945436
US-PATENT-CLASS-73-155
US-PATENT-4,196,619
N80-26298* c 07 ..... NASA-CASE-ARC-10814-2
US-PATENT-APPL-SN-884045
US-PATENT-APPL-SN-831832
US-PATENT-CLASS-60-39.06
US-PATENT-CLASS-60-733
US-PATENT-CLASS-60-746
US-PATENT-4,204,402
N80-26388* c 24 ..... NASA-CASE-MFS-23626-1
US-PATENT-APPL-SN-941711
US-PATENT-CLASS-156-212
US-PATENT-CLASS-156-213
US-PATENT-CLASS-156-285
US-PATENT-CLASS-260-17.2
US-PATENT-CLASS-264-118
US-PATENT-CLASS-264-119
US-PATENT-CLASS-264-124
US-PATENT-4,204,899
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US-PATENT-APPL-SN-747674
US-PATENT-CLASS-204-159.15
US-PATENT-CLASS-204-159.19
US-PATENT-CLASS-525-426
US-PATENT-CLASS-8-DIG.12
US-PATENT-CLASS-8-DIG.18
US-PATENT-CLASS-8-115.5
US-PATENT-4,200,723
N80-26599* c 33 ..... NASA-CASE-FRC-10113-1
US-PATENT-APPL-SN-885066
US-PATENT-CLASS-324-51
US-PATENT-4,204,154
N80-26635* c 35 ..... NASA-CASE-NPO-14372-1
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US-PATENT-APPL-SN-956529
US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-352
US-PATENT-CLASS-250-353
US-PATENT-CLASS-356-328
US-PATENT-4,205,229
N80-26658* c 37 ..... NASA-CASE-LEW-12131-2
US-PATENT-APPL-SN-801290
US-PATENT-APPL-SN-931090
US-PATENT-CLASS-415-174
US-PATENT-CLASS-415-196
US-PATENT-4,135,851
US-PATENT-4,207,024
N80-27067* c 51 ..... NASA-CASE-MSC-16777-1
US-PATENT-APPL-SN-893657
US-PATENT-CLASS-204-195B
US-PATENT-CLASS-23-230B
US-PATENT-CLASS-422-68
US-PATENT-CLASS-435-289
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US-PATENT-CLASS-435-291
US-PATENT-CLASS-435-3
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-316
US-PATENT-CLASS-435-32
US-PATENT-CLASS-435-34
US-PATENT-CLASS-435-38
US-PATENT-CLASS-435-39
US-PATENT-4,204,037
N80-27072* c 52 ..... NASA-CASE-NPO-14212-1
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US-PATENT-CLASS-128-642
US-PATENT-CLASS-128-774
US-PATENT-CLASS-128-782
US-PATENT-CLASS-33-125R
US-PATENT-CLASS-338-2
US-PATENT-CLASS-73-781
US-PATENT-4,204,544
N80-27163* c 72 ..... NASA-CASE-NPO-14324-1
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US-PATENT-CLASS-313-156
US-PATENT-CLASS-313-362
US-PATENT-CLASS-313-363
US-PATENT-4,206,383
N80-27185* c 74 ..... NASA-CASE-LAR-12251-1
US-PATENT-APPL-SN-953389
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US-PATENT-CLASS-350-226
US-PATENT-4,206,970
N80-28300* c 02 ..... NASA-CASE-FRC-11024-1
US-PATENT-APPL-SN-015983
US-PATENT-CLASS-73-180
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-861.65
US-PATENT-CLASS-73-861.66
US-PATENT-4,212,199
N80-28492* c 26 ..... NASA-CASE-LAR-11821-1
US-PATENT-APPL-SN-023501
US-PATENT-CLASS-148-131
US-PATENT-CLASS-266-119
US-PATENT-CLASS-266-249
US-PATENT-CLASS-266-274
US-PATENT-4,212,690
N80-28536* c 28 ..... NASA-CASE-NPO-14477-1
US-PATENT-APPL-SN-951630
US-PATENT-CLASS-149-19.2
US-PATENT-CLASS-149-19.9
US-PATENT-CLASS-149-20
US-PATENT-4,210,474
N80-28578* c 32 ..... NASA-CASE-GSC-12365-1
US-PATENT-APPL-SN-039031
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-844
US-PATENT-CLASS-343-854
US-PATENT-4,213,131
N80-28686* c 35 ..... NASA-CASE-LAR-11370-1
US-PATENT-APPL-SN-940689
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US-PATENT-CLASS-250-491
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US-PATENT-CLASS-204-159.14
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US-PATENT-CLASS-74-665C
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US-PATENT-CLASS-356-72
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US-PATENT-CLASS-428-140
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US-PATENT-CLASS-260-8900
US-PATENT-CLASS-260-895
US-PATENT-CLASS-260-898
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US-PATENT-CLASS-82-1C
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US-PATENT-CLASS-128-DIG.26
US-PATENT-CLASS-128-DIG.6
US-PATENT-CLASS-128-DIG.I
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US-PATENT-APPL-SN-974476
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US-PATENT-CLASS-33.6UB
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US-PATENT-CLASS-41R
US-PATENT-CLASS-77.5AQ
US-PATENT-CLASS-77.5CH
US-PATENT-CLASS-85R
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US-PATENT-CLASS-260-96D
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US-PATENT-CLASS-110-232
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US-PATENT-CLASS-244-173
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NASA-CASE-NPO-14169-1
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US-PATENT-CLASS-228-190
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US-PATENT-CLASS-260-2.2R
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US-PATENT-CLASS-260-326S
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US-PATENT-CLASS-528-322
US-PATENT-CLASS-536-117
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US-PATENT-CLASS-41-50
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US-PATENT-APPL-SN-909235
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US-PATENT-CLASS-364-431
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US-PATENT-CLASS-60-236
US-PATENT-CLASS-60-238
US-PATENT-CLASS-60-239
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N81-19130* c 08 ..... NASA-CASE-LAR-11970-2
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US-PATENT-APPL-SN-727503
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US-PATENT-CLASS-244-52
US-PATENT-CLASS-244-87
US-PATENT-4,236,684
N81-19242* c 25 ..... NASA-CASE-MFS-25000-1
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US-PATENT-CLASS-260-29.6RB
US-PATENT-CLASS-526-201
US-PATENT-CLASS-526-88
US-PATENT-4,247,434
N81-19244* c 25 ..... NASA-CASE-NPO-13309-1
US-PATENT-APPL-SN-383130
US-PATENT-CLASS-210-24
US-PATENT-CLASS-260-2.1E
US-PATENT-CLASS-260-2.2R
US-PATENT-CLASS-264-41
US-PATENT-3,944,495
N81-19296* c 27 ..... NASA-CASE-LEW-12933-1
US-PATENT-APPL-SN-027557

US-PATENT-CLASS-260-33.4R
US-PATENT-CLASS-427-221
US-PATENT-CLASS-427-379
US-PATENT-CLASS-526-353
US-PATENT-4,244,853

N81-19343* c 31 ..... NASA-CASE-GSC-12513-1
US-PATENT-APPL-SN-053571
US-PATENT-CLASS-109-49.5
US-PATENT-CLASS-109-58.5
US-PATENT-CLASS-220-82R
US-PATENT-CLASS-220-89A
US-PATENT-CLASS-49-171
US-PATENT-4,245,566

N81-19389* c 33 ..... NASA-CASE-NPO-14297-1
US-PATENT-APPL-SN-938299
US-PATENT-CLASS-156-DIG.96
US-PATENT-CLASS-156-608
US-PATENT-CLASS-219-10.49R
US-PATENT-CLASS-219-10.67
US-PATENT-CLASS-422-246
US-PATENT-CLASS-422-249
US-PATENT-CLASS-432-264
US-PATENT-4,242,553

N81-19392* c 33 ..... NASA-CASE-GSC-12360-1
US-PATENT-APPL-SN-041164
US-PATENT-CLASS-363-101
US-PATENT-CLASS-363-21
US-PATENT-4,245,296

N81-19393* c 33 ..... NASA-CASE-NPO-14505-1
US-PATENT-APPL-SN-956166
US-PATENT-CLASS-363-21
US-PATENT-CLASS-363-36
US-PATENT-CLASS-363-40
US-PATENT-CLASS-363-47
US-PATENT-4,245,298

N81-19426* c 35 ..... NASA-CASE-MFS-23923-1
US-PATENT-APPL-SN-053569
US-PATENT-CLASS-73-190R
US-PATENT-4,248,083

N81-19427* c 35 ..... NASA-CASE-MSC-16370-1
US-PATENT-APPL-SN-061556
US-PATENT-CLASS-329-107
US-PATENT-CLASS-329-50
US-PATENT-CLASS-375-1
US-PATENT-CLASS-375-104
US-PATENT-CLASS-375-34
US-PATENT-CLASS-375-99
US-PATENT-4,241,312

N81-19455* c 37 ..... NASA-CASE-LEW-12082-1
US-PATENT-APPL-SN-929084
US-PATENT-CLASS-204-192E
US-PATENT-CLASS-228-116
US-PATENT-CLASS-228-206
US-PATENT-4,245,768

N81-19558* c 44 ..... NASA-CASE-NPO-14670-1
US-PATENT-APPL-SN-043941
US-PATENT-CLASS-136-258
US-PATENT-CLASS-252-62.3E
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-59
US-PATENT-CLASS-357-63
US-PATENT-4,249,957

N81-19896* c 74 ..... NASA-CASE-NPO-11337-1
NASA-CASE-NPO-11575-1
US-PATENT-APPL-SN-090584
US-PATENT-APPL-SN-276589
US-PATENT-CLASS-340-146.3H
US-PATENT-CLASS-340-146.3S
US-PATENT-CLASS-340-146.3Y
US-PATENT-3,845,466

N81-19898* c 74 ..... NASA-CASE-NPO-12087-1
US-PATENT-APPL-SN-095217
US-PATENT-CLASS-250-83.6R
US-PATENT-3,704,284

N81-20352* # c 33 ..... NASA-CASE-NPO-13970-1
US-PATENT-APPL-SN-023484
US-PATENT-CLASS-318-138
US-PATENT-CLASS-318-254
US-PATENT-CLASS-318-439
US-PATENT-4,249,116

N81-20703* c 52 ..... NASA-CASE-NPO-14329-1
US-PATENT-APPL-SN-044432
US-PATENT-CLASS-128-642
US-PATENT-CLASS-128-774
US-PATENT-CLASS-73-141A
US-PATENT-4,249,417

N81-21047* c 04 ..... NASA-CASE-ARC-11257-1
US-PATENT-APPL-SN-078011
US-PATENT-CLASS-73-178R
US-PATENT-CLASS-73-490
US-PATENT-CLASS-73-504
US-PATENT-4,244,215

N81-22260* # c 33 ..... NASA-CASE-MFS-24368-3
US-PATENT-APPL-SN-243083

N81-22344* # c 36 ..... NASA-CASE-GSC-12609-1
US-PATENT-APPL-SN-218586

N81-22360* # c 37 ..... NASA-CASE-LEW-12445-1
US-PATENT-APPL-SN-238887

N81-24106* c 08 ..... NASA-CASE-LAR-12266-1
US-PATENT-APPL-SN-015996
US-PATENT-CLASS-244-181
US-PATENT-CLASS-244-195
US-PATENT-CLASS-318-584
US-PATENT-CLASS-364-434
US-PATENT-4,261,537

N81-24256* c 27 ..... NASA-CASE-ARC-11253-3
US-PATENT-APPL-SN-028301
US-PATENT-APPL-SN-145283
US-PATENT-CLASS-260-465.5R
US-PATENT-CLASS-528-310
US-PATENT-CLASS-564-229
US-PATENT-4,269,787

N81-24257* c 27 ..... NASA-CASE-LEW-13135-2
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US-PATENT-APPL-SN-971475
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US-PATENT-CLASS-429-249
US-PATENT-CLASS-429-253
US-PATENT-CLASS-429-27
US-PATENT-CLASS-429-28
US-PATENT-CLASS-525-61
US-PATENT-4,262,067

N81-24258* c 27 ..... NASA-CASE-NPO-10424-1
US-PATENT-APPL-SN-892636
US-PATENT-CLASS-260-37
US-PATENT-3,651,008

N81-24260* c 28 ..... NASA-CASE-MSC-16394-1
US-PATENT-APPL-SN-161255
US-PATENT-CLASS-204-129
US-PATENT-CLASS-204-252
US-PATENT-CLASS-204-266
US-PATENT-CLASS-204-290F
US-PATENT-CLASS-204-290R
US-PATENT-CLASS-204-291
US-PATENT-4,263,112

N81-24338* c 33 ..... NASA-CASE-NPO-14617-1
US-PATENT-APPL-SN-051269
US-PATENT-CLASS-330-8
US-PATENT-4,262,259

N81-24422* c 36 ..... NASA-CASE-LAR-12177-1
US-PATENT-APPL-SN-027558
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-356-356
US-PATENT-CLASS-356-358
US-PATENT-4,255,048

N81-24442* c 37 ..... NASA-CASE-LEW-12991-1
US-PATENT-APPL-SN-961832
US-PATENT-CLASS-277-96
US-PATENT-4,260,166

N81-24443* c 37 ..... NASA-CASE-LAR-11695-2
US-PATENT-APPL-SN-103836
US-PATENT-APPL-SN-893985
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US-PATENT-CLASS-152-353G
US-PATENT-CLASS-152-353R
US-PATENT-CLASS-152-379.4
US-PATENT-CLASS-244-103R
US-PATENT-CLASS-244-130
US-PATENT-4,267,992

N81-24519* c 44 ..... NASA-CASE-LEW-12441-3
US-PATENT-APPL-SN-032307
US-PATENT-APPL-SN-856462
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-204
US-PATENT-CLASS-60-267
US-PATENT-4,199,937
US-PATENT-4,245,469

N81-24520* c 44 ..... NASA-CASE-MFS-23999-1
US-PATENT-APPL-SN-060435
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-209
US-PATENT-4,262,195

N81-24521* c 44 ..... NASA-CASE-LEW-12918-1
US-PATENT-APPL-SN-134855
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US-PATENT-CLASS-429-160
US-PATENT-CLASS-429-164
US-PATENT-CLASS-429-94
US-PATENT-4,262,064

N81-24711* c 52 ..... NASA-CASE-MSC-16433-1
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US-PATENT-CLASS-128-295
US-PATENT-CLASS-128-761
US-PATENT-CLASS-4-144.3
US-PATENT-4,246,901

N81-24724* c 54 ..... NASA-CASE-KSC-11085-1
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US-PATENT-CLASS-261-79A
US-PATENT-CLASS-422-109
US-PATENT-CLASS-422-27
US-PATENT-CLASS-422-3
US-PATENT-CLASS-422-30
US-PATENT-CLASS-422-34
US-PATENT-4,250,143

N81-24779* c 62 ..... NASA-CASE-KSC-11048-1
US-PATENT-APPL-SN-023437
US-PATENT-CLASS-364-200
US-PATENT-4,254,464

N81-24900* c 74 ..... NASA-CASE-GSC-12528-1
US-PATENT-APPL-SN-111439
US-PATENT-CLASS-250-368
US-PATENT-CLASS-250-483
US-PATENT-4,262,206

N81-25159* c 25 ..... NASA-CASE-NPO-15102-1
US-PATENT-APPL-SN-154726
US-PATENT-CLASS-250-350
US-PATENT-CLASS-356-432
US-PATENT-4,253,769

N81-25188* c 26 ..... NASA-CASE-LEW-13088-1
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US-PATENT-CLASS-428-471
US-PATENT-CLASS-428-632
US-PATENT-CLASS-428-678
US-PATENT-CLASS-428-679
US-PATENT-CLASS-428-680
US-PATENT-4,255,495

N81-25209* c 27 ..... NASA-CASE-MSC-18107-1
US-PATENT-APPL-SN-956158
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US-PATENT-CLASS-430-325
US-PATENT-CLASS-430-329
US-PATENT-CLASS-430-330
US-PATENT-4,262,080

N81-25258* c 31 ..... NASA-CASE-LAR-12095-1
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US-PATENT-CLASS-244-158R
US-PATENT-CLASS-403-171
US-PATENT-CLASS-428-902
US-PATENT-CLASS-52-309.1
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-726
US-PATENT-4,259,821

N81-25259* c 31 ..... NASA-CASE-LAR-12077-1
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US-PATENT-CLASS-52-645
US-PATENT-4,259,825

N81-25278* c 32 ..... NASA-CASE-NPO-14588-1
US-PATENT-APPL-SN-006209
US-PATENT-CLASS-343-755
US-PATENT-CLASS-343-772
US-PATENT-CLASS-343-781R
US-PATENT-CLASS-343-786
US-PATENT-4,256,366

N81-25299* c 33 ..... NASA-CASE-GSC-12388-1
US-PATENT-APPL-SN-961831
US-PATENT-CLASS-70-58
US-PATENT-4,252,007

N81-25370* c 37 ..... NASA-CASE-NPO-14221-1
US-PATENT-APPL-SN-907431
US-PATENT-CLASS-60-517
US-PATENT-CLASS-60-525
US-PATENT-4,255,929

N81-25371* c 37 ..... NASA-CASE-NPO-13823-1
US-PATENT-APPL-SN-858487
US-PATENT-CLASS-106-43
US-PATENT-CLASS-264-332
US-PATENT-4,252,758

N81-25400* c 39 ..... NASA-CASE-NPO-14363-1
US-PATENT-APPL-SN-969780
US-PATENT-CLASS-356-213
US-PATENT-CLASS-356-218
US-PATENT-CLASS-356-234
US-PATENT-CLASS-356-32
US-PATENT-4,252,440

N81-25660* c 52 ..... NASA-CASE-MFS-23717-1
US-PATENT-APPL-SN-950877
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US-PATENT-CLASS-128-1R
US-PATENT-CLASS-128-348
US-PATENT-CLASS-137-493
US-PATENT-4,258,093

N81-25661* c 52 ..... NASA-CASE-GSC-12082-2
US-PATENT-APPL-SN-870958
US-PATENT-APPL-SN-798976
US-PATENT-CLASS-128-80F
US-PATENT-4,252,111

N81-25662* c 52 ..... NASA-CASE-ARC-11167-1
US-PATENT-APPL-SN-057526
US-PATENT-CLASS-128-898R
US-PATENT-4,261,349

N81-26073* # c 02 ..... NASA-CASE-KSC-11042-2
US-PATENT-APPL-SN-154883

N81-26114* c 05 ..... NASA-CASE-LAR-12408-1
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US-PATENT-CLASS-244-117A

US-PATENT-CLASS-244-163
US-PATENT-CLASS-60-259
US-PATENT-CLASS-60-267
US-PATENT-CLASS-60-730
US-PATENT-CLASS-62-DIG.5
US-PATENT-4,273,304
N81-26152* c 06 ..... NASA-CASE-LAR-12562-1
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US-PATENT-CLASS-244-182
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N81-26161* c 14 ..... NASA-CASE-LAR-12250-1
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US-PATENT-CLASS-244-2
US-PATENT-CLASS-244-63
US-PATENT-4,265,416
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US-PATENT-APPL-SN-893857
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US-PATENT-CLASS-226-190
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US-PATENT-4,267,953
N81-26358* c 33 ..... NASA-CASE-LAR-12196-1
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US-PATENT-CLASS-324-73AT
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US-PATENT-CLASS-371-25
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N81-26360* c 33 ..... NASA-CASE-GSC-12515-1
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US-PATENT-CLASS-357-60
US-PATENT-CLASS-357-91
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US-PATENT-CLASS-364-510
US-PATENT-CLASS-364-571
US-PATENT-CLASS-73-861
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N81-26431* c 35 ..... NASA-CASE-FRC-10112-1
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US-PATENT-CLASS-219-210
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US-PATENT-CLASS-236-1F
US-PATENT-CLASS-361-334
US-PATENT-CLASS-73-381
US-PATENT-4,264,802
N81-26447* c 37 ..... NASA-CASE-LEW-12119-2
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US-PATENT-APPL-SN-872219
US-PATENT-CLASS-277-153
US-PATENT-CLASS-277-193
US-PATENT-4,212,477
US-PATENT-4,266,788
N81-26509* c 43 ..... NASA-CASE-NPO-14140-1
NASA-CASE-NPO-14387-1
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US-PATENT-CLASS-166-222
US-PATENT-CLASS-166-77
US-PATENT-CLASS-239-562
US-PATENT-CLASS-239-591
US-PATENT-CLASS-299-13
US-PATENT-CLASS-299-17
US-PATENT-CLASS-299-20
US-PATENT-4,226,475
N81-26718* c 54 ..... NASA-CASE-MFS-23696-1
US-PATENT APPL-SN-945044
US-PATENT-CLASS-294-93
US-PATENT-CLASS-414-4
US-PATENT-CLASS-414-735
US-PATENT-CLASS-414-744A
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N81-27271* c 27 ..... NASA-CASE-ARC-11176-2
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US-PATENT-CLASS-528-399
US-PATENT-CLASS-528-4
US-PATENT-CLASS-528-6
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US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-920
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-228
US-PATENT-4,276,344
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US-PATENT-CLASS-52-108
US-PATENT-CLASS-52-745
US-PATENT-4,237,662
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US-PATENT-CLASS-182-62.5
US-PATENT-CLASS-212-267
US-PATENT-CLASS-52-111
US-PATENT-CLASS-52-632
US-PATENT-4,238,911
N81-27341* c 32 ..... NASA-CASE-GSC-12147-1
US-PATENT-APPL-SN-780873
US-PATENT-CLASS-343-112R
US-PATENT-4,276,553
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US-PATENT-CLASS-307-252UA
US-PATENT-CLASS-318-799
US-PATENT-CLASS-318-810
US-PATENT-4,266,177
N81-27396* c 33 ..... NASA-CASE-NPO-14426-1
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US-PATENT-CLASS-307-352
US-PATENT-CLASS-307-353
US-PATENT-CLASS-328-151
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N81-27397* c 33 ..... NASA-CASE-MSC-12745-1
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US-PATENT-CLASS-333-12
US-PATENT-CLASS-361-56
US-PATENT-CLASS-361-91
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N81-27519* c 37 ..... NASA-CASE-NPO-14521-1
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US-PATENT-CLASS-294-86R
US-PATENT-CLASS-318-640
US-PATENT-CLASS-356-152
US-PATENT-CLASS-414-730
US-PATENT-4,260,167
N81-27615*# c 44 ..... NASA-CASE-LEW-13556-1
US-PATENT-APPL-SN-272233
N81-27783* c 52 ..... NASA-CASE-NPO-14402-1
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US-PATENT-CLASS-356-407
US-PATENT-CLASS-356-416
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N81-27806* c 54 ..... NASA-CASE-LAR-12320-1
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N81-27814* c 60 ..... NASA-CASE-NPO-14554-1
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US-PATENT-CLASS-364-900
US-PATENT-CLASS-370-58
US-PATENT-4,264,984
N81-28688* c 51 ..... NASA-CASE-LAR-12520-1
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US-PATENT-CLASS-204-17
US-PATENT-CLASS-204-195B
US-PATENT-CLASS-435-291
US-PATENT-CLASS-435-34
US-PATENT-CLASS-435-5
US-PATENT-4,264,728
N81-28740* c 52 ..... NASA-CASE-MSC-18381-1
US-PATENT-APPL-SN-034531
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US-PATENT-4,270,530
N81-29129* c 07 ..... NASA-CASE-LEW-12990-1
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US-PATENT-CLASS-431-2
US-PATENT-CLASS-60-39.06
US-PATENT-CLASS-60-726
US-PATENT-CLASS-60-737
US-PATENT-4,169,914
N81-29152* c 18 ..... NASA-CASE-LAR-12052-1
US-PATENT-APPL-SN-102002
US-PATENT-CLASS-364-453
US-PATENT-CLASS-364-566
US-PATENT-CLASS-73-178R
US-PATENT-CLASS-73-510
US-PATENT-4,281,384
N81-29160* c 23 ..... NASA-CASE-LEW-13101-2
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US-PATENT-APPL-SN-971473
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US-PATENT-CLASS-429-28
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N81-29163* c 24 ..... NASA-CASE-MFS-23674-1
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US-PATENT-CLASS-156-165
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US-PATENT-CLASS-156-294
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US-PATENT-CLASS-264-229
US-PATENT-CLASS-264-231
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-259
US-PATENT-CLASS-264-311
US-PATENT-CLASS-74-572
US-PATENT-4,190,626
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US-PATENT-APPL-SN-092141
US-PATENT-CLASS-264-137
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-229
US-PATENT-4,281,102
N81-29308* c 32 ..... NASA-CASE-NPO-14641-1
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US-PATENT-CLASS-455-278
US-PATENT-4,278,978
N81-29342* c 33 ..... NASA-CASE-GSC-12111-2
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US-PATENT-APPL-SN-830272
US-PATENT-CLASS-350-96.25
US-PATENT-CLASS-385-120
US-PATENT-4,154,501
N81-29407* c 35 ..... NASA-CASE-LAR-12308-1
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US-PATENT-CLASS-73-884.52
US-PATENT-4,274,295
N81-29524* c 44 ..... NASA-CASE-LEW-13148-2
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US-PATENT-APPL-SN-964754
US-PATENT-CLASS-204-2.1
US-PATENT-4,192,910
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N81-29525* c 44 ..... NASA-CASE-NPO-13689-2
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US-PATENT-APPL-SN-597430
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US-PATENT-CLASS-357-30
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US-PATENT-CLASS-364-514
US-PATENT-CLASS-375-1
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US-PATENT-CLASS-277-189
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US-PATENT-CLASS-48-99
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US-PATENT-CLASS-526-6
US-PATENT-CLASS-526-7
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US-PATENT-CLASS-568-4

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US-PATENT-CLASS-105-218R
US-PATENT-CLASS-248-425
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US-PATENT-CLASS-356-5
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US-PATENT-CLASS-331-94.5PE
US-PATENT-CLASS-333-20
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US-PATENT-CLASS-414-730
US-PATENT-4,343,584

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US-PATENT-CLASS-403-331
US-PATENT-CLASS-403-340
US-PATENT-CLASS-52-81
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US-PATENT-4,344,996
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US-PATENT-CLASS-364-861
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US-PATENT-CLASS-156-635
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US-PATENT-CLASS-73-860
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US-PATENT-CLASS-429-254
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US-PATENT-CLASS-65-142
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US-PATENT-CLASS-156-423
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US-PATENT-CLASS-47-58
US-PATENT-4,415,450
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N84-16255* c 23 ..... NASA-CASE-NPO-15787-1
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US-PATENT-CLASS-208-8LE
US-PATENT-4,398,171
N84-16262* c 24 ..... NASA-CASE-MSC-16934-3
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US-PATENT-APPL-SN-361711
US-PATENT-APPL-SN-368757
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US-PATENT-CLASS-264-118
US-PATENT-CLASS-264-59
US-PATENT-CLASS-264-80
US-PATENT-4,421,700
N84-16276* c 25 ..... NASA-CASE-LEW-13426-1
US-PATENT-APPL-SN-393588
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US-PATENT-CLASS-110-262
US-PATENT-CLASS-110-263
US-PATENT-CLASS-110-265
US-PATENT-CLASS-431-1
US-PATENT-4,425,854
N84-16452* c 33 ..... NASA-CASE-LEW-13570-1
US-PATENT-APPL-SN-251009
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US-PATENT-CLASS-315-39.3
US-PATENT-CLASS-333-162
US-PATENT-4,422,012
N84-16453* c 33 ..... NASA-CASE-MFS-25430-1
US-PATENT-APPL-SN-383083
US-PATENT-CLASS-363-25
US-PATENT-CLASS-363-65
US-PATENT-CLASS-363-67
US-PATENT-CLASS-363-71
US-PATENT-4,426,676
N84-16454* c 33 ..... NASA-CASE-GSC-12645-1
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US-PATENT-CLASS-324-83A
US-PATENT-CLASS-324-83R
US-PATENT-CLASS-328-133
US-PATENT-CLASS-330-289
US-PATENT-4,425,543
N84-16455* c 33 ..... NASA-CASE-MFS-25616-1

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US-PATENT-CLASS-323-243
US-PATENT-CLASS-323-246
US-PATENT-4,426,614

N84-16456* c 33 — NASA-CASE-NPO-15181-1
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US-PATENT-CLASS-427-376.7
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US-PATENT-CLASS-427-437
US-PATENT-CLASS-427-58
US-PATENT-CLASS-427-75
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US-PATENT-CLASS-427-96
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N84-16523* c 35 — NASA-CASE-LAR-12007-3
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US-PATENT-CLASS-33-293
US-PATENT-4,428,122

N84-16542* c 36 — NASA-CASE-LAR-12870-1
US-PATENT-APPL-SN-317858
US-PATENT-CLASS-372-55
US-PATENT-CLASS-372-79
US-PATENT-4,424,592

N84-16560* c 37 — NASA-CASE-MFS-25510-1
US-PATENT-APPL-SN-293414
US-PATENT-CLASS-248-229
US-PATENT-4,422,609

N84-16561* c 37 — NASA-CASE-LAR-12785-1
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US-PATENT-CLASS-239-568
US-PATENT-CLASS-241-95
US-PATENT-CLASS-408-155
US-PATENT-4,428,703

N84-16803* c 54 — NASA-CASE-MSC-20202-1
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US-PATENT-CLASS-128-1A
US-PATENT-CLASS-128-15R
US-PATENT-CLASS-128-38
US-PATENT-4,421,109

N84-16940* c 71 — NASA-CASE-NPO-15592-1
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US-PATENT-CLASS-118-500
US-PATENT-CLASS-118-57
US-PATENT-CLASS-118-62
US-PATENT-CLASS-427-346
US-PATENT-CLASS-427-421
US-PATENT-CLASS-427-426
US-PATENT-CLASS-427-57
US-PATENT-CLASS-427-6
US-PATENT-CLASS-65-213
US-PATENT-4,425,376

N84-16959* # c 72 — NASA-CASE-NPO-15547-1
US-PATENT-APPL-SN-276076

N84-17555* c 35 — NASA-CASE-NPO-15426-1
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US-PATENT-CLASS-422-178
US-PATENT-CLASS-422-186
US-PATENT-CLASS-55-DIG.25
US-PATENT-CLASS-55-DIG.30
US-PATENT-CLASS-55-105
US-PATENT-CLASS-55-12
US-PATENT-CLASS-55-126
US-PATENT-CLASS-55-131
US-PATENT-CLASS-55-138
US-PATENT-CLASS-55-139
US-PATENT-CLASS-55-145
US-PATENT-CLASS-55-2
US-PATENT-CLASS-55-270
US-PATENT-CLASS-55-290
US-PATENT-CLASS-55-291
US-PATENT-CLASS-55-486
US-PATENT-CLASS-55-6
US-PATENT-CLASS-55-96
US-PATENT-CLASS-60-275
US-PATENT-CLASS-60-303
US-PATENT-CLASS-60-311
US-PATENT-4,376,637

N84-22546* c 04 — NASA-CASE-GSC-12508-1
US-PATENT-APPL-SN-266263
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US-PATENT-CLASS-343-357
US-PATENT-4,445,118

N84-22551* c 05 — NASA-CASE-LAR-12541-1
US-PATENT-APPL-SN-315588
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US-PATENT-CLASS-244-215
US-PATENT-CLASS-244-216
US-PATENT-CLASS-244-219
US-PATENT-4,444,368

N84-22559* c 07 — NASA-CASE-LEW-13622-1
US-PATENT-APPL-SN-350473
US-PATENT-CLASS-364-558
US-PATENT-CLASS-73-115
US-PATENT-4,428,226

N84-22560* c 07 — NASA-CASE-LEW-13654-1
US-PATENT-APPL-SN-245571
US-PATENT-CLASS-416-224
US-PATENT-CLASS-416-230
US-PATENT-CLASS-416-92
US-PATENT-CLASS-416-97R
US-PATENT-4,411,587

N84-22601* c 18 — NASA-CASE-MSC-20254-1
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US-PATENT-CLASS-52-404
US-PATENT-CLASS-52-506
US-PATENT-4,439,968

N84-22605* c 18 — NASA-CASE-MSC-18969-1
US-PATENT-APPL-SN-368189
US-PATENT-CLASS-244-161
US-PATENT-CLASS-403-322
US-PATENT-4,431,333

N84-22609* # c 18 — NASA-CASE-MFS-15429-1
US-PATENT-APPL-SN-596969

N84-22610* # c 18 — NASA-CASE-MSC-20543-1
US-PATENT-APPL-SN-580574

N84-22612* # c 18 — NASA-CASE-ARC-11505-1
US-PATENT-APPL-SN-588036

N84-22695* c 24 — NASA-CASE-LEW-13937-1
US-PATENT-APPL-SN-495381
US-PATENT-CLASS-204-192C
US-PATENT-CLASS-204-192R
US-PATENT-CLASS-204-192SP
US-PATENT-CLASS-423-DIG.10
US-PATENT-CLASS-423-414
US-PATENT-CLASS-423-445
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-449
US-PATENT-4,437,962

N84-22709* c 25 — NASA-CASE-NPO-15210-1
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US-PATENT-CLASS-208-10
US-PATENT-CLASS-208-8LE
US-PATENT-4,443,321

N84-22734* c 26 — NASA-CASE-LEW-13349-1
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US-PATENT-CLASS-29-623.5
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US-PATENT-CLASS-427-125
US-PATENT-CLASS-427-126.6
US-PATENT-CLASS-427-296
US-PATENT-CLASS-427-306
US-PATENT-CLASS-429-223
US-PATENT-CLASS-429-234
US-PATENT-4,439,495

N84-22744* c 27 — NASA-CASE-ARC-11402-1
US-PATENT-APPL-SN-366025
US-PATENT-CLASS-260-465.5R
US-PATENT-CLASS-260-465.6
US-PATENT-CLASS-528-362
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-CLASS-528-423
US-PATENT-CLASS-544-215
US-PATENT-CLASS-564-243
US-PATENT-4,434,106

N84-22745* c 27 — NASA-CASE-ARC-11368-3
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US-PATENT-APPL-SN-512795
US-PATENT-CLASS-428-370
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-930
US-PATENT-CLASS-525-417
US-PATENT-CLASS-528-262
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-322
US-PATENT-CLASS-548-415
US-PATENT-4,396,557
US-PATENT-4,433,115

N84-22748* c 27 — NASA-CASE-LAR-12723-2
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US-PATENT-APPL-SN-447371
US-PATENT-CLASS-525-426
US-PATENT-CLASS-528-183
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-345
US-PATENT-CLASS-528-348
US-PATENT-4,396,540
US-PATENT-4,431,782

N84-22747* c 27 — NASA-CASE-LAR-12931-1
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US-PATENT-CLASS-525-534
US-PATENT-CLASS-525-535
US-PATENT-CLASS-525-536
US-PATENT-CLASS-528-25
US-PATENT-CLASS-528-26
US-PATENT-4,431,781

N84-22748* c 27 — NASA-CASE-NPO-15840-1
US-PATENT-APPL-SN-465367
US-PATENT-CLASS-156-304.3
US-PATENT-CLASS-156-304.6
US-PATENT-CLASS-156-499
US-PATENT-CLASS-156-91
US-PATENT-CLASS-156-99
US-PATENT-4,420,352

N84-22749* c 27 — NASA-CASE-LAR-12980-1
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US-PATENT-CLASS-526-128
US-PATENT-CLASS-526-172
US-PATENT-CLASS-526-186
US-PATENT-4,444,979

N84-22750* c 27 — NASA-CASE-ARC-11370-1
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US-PATENT-CLASS-525-380
US-PATENT-CLASS-526-304
US-PATENT-CLASS-526-350
US-PATENT-CLASS-526-6
US-PATENT-CLASS-526-7
US-PATENT-CLASS-526-4
US-PATENT-CLASS-526-5
US-PATENT-4,444,972

N84-22820* c 32 — NASA-CASE-MSC-18675-1
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US-PATENT-CLASS-343-6R
US-PATENT-4,439,768

N84-22884* c 33 — NASA-CASE-MFS-25670A-1
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US-PATENT-CLASS-204-192EC
US-PATENT-4,437,961

N84-22885* c 33 — NASA-CASE-MFS-25535-2
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US-PATENT-CLASS-318-438
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-805
US-PATENT-CLASS-318-810
US-PATENT-4,433,276

N84-22886* c 33 — NASA-CASE-MFS-25323-1
US-PATENT-APPL-SN-297524
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-812
US-PATENT-4,439,710

N84-22887* c 33 — NASA-CASE-GSC-12567-1
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US-PATENT-CLASS-330-277
US-PATENT-CLASS-330-294
US-PATENT-4,437,060

N84-22903* c 34 — NASA-CASE-NPO-15485-1
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US-PATENT-CLASS-165-135
US-PATENT-CLASS-62-DIG.1
US-PATENT-CLASS-62-264
US-PATENT-CLASS-62-467R
US-PATENT-4,423,605

N84-22928* c 35 — NASA-CASE-MFS-25687-1
US-PATENT-APPL-SN-350474
US-PATENT-CLASS-324-262
US-PATENT-CLASS-73-620
US-PATENT-CLASS-73-633
US-PATENT-CLASS-74-58
US-PATENT-4,434,659

N84-22929* c 35 — NASA-CASE-MFS-25405-1
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US-PATENT-4,429,975

N84-22930* c 35 — NASA-CASE-LEW-13598-1
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US-PATENT-CLASS-156-630
US-PATENT-CLASS-156-654
US-PATENT-CLASS-156-906
US-PATENT-CLASS-229-165
US-PATENT-4,437,923

N84-22931* c 35 — NASA-CASE-NPO-15388-1
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US-PATENT-CLASS-358-216
US-PATENT-CLASS-358-234
US-PATENT-4,431,306

N84-22932* c 35 — NASA-CASE-LAR-12967-1
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US-PATENT-CLASS-310-366
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N84-22933* c 35 NASA-CASE-LAR-12995-1
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N84-22934* c 35 NASA-CASE-ARC-11361-1
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US-PATENT-CLASS-73-756
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US-PATENT-CLASS-118-641
US-PATENT-CLASS-427-310
US-PATENT-CLASS-427-53.1
US-PATENT-4,434,189
N84-22957* c 37 NASA-CASE-LEW-13269-2
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US-PATENT-APPL-SN-431448
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US-PATENT-CLASS-427-423
US-PATENT-CLASS-427-53.1
US-PATENT-CLASS-428-155
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US-PATENT-4,430,380
N84-22958* c 37 NASA-CASE-LEW-12590-1
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US-PATENT-CLASS-60-736
US-PATENT-4,429,537
N84-23012* # c 43 NASA-CASE-NPO-15856-1
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N84-23018* c 44 NASA-CASE-NPO-15496-1
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US-PATENT-CLASS-415-DIG.8
US-PATENT-CLASS-415-2R
US-PATENT-CLASS-60-641.12
US-PATENT-CLASS-60-698
US-PATENT-CLASS-60-716
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N84-23019* c 44 NASA-CASE-LAR-12958-1
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US-PATENT-CLASS-204-DIG.3
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US-PATENT-CLASS-204-278
US-PATENT-CLASS-204-290
US-PATENT-CLASS-423-303
US-PATENT-CLASS-429-111
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US-PATENT-CLASS-156-644
US-PATENT-CLASS-156-668
US-PATENT-CLASS-204-192E
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US-PATENT-CLASS-2-167
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N84-23233* c 71 NASA-CASE-NPO-15689-1
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US-PATENT-CLASS-350-173
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US-PATENT-4,444,464
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US-PATENT-CLASS-340-878
US-PATENT-CLASS-340-980
US-PATENT-CLASS-73-178R
US-PATENT-4,453,163
N84-27749* c 09 NASA-CASE-MFS-25791-1
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US-PATENT-CLASS-73-117.1
US-PATENT-4,434,753
N84-27784* c 16 NASA-CASE-MFS-25853-1
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US-PATENT-CLASS-244-2
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US-PATENT-CLASS-73-856
US-PATENT-4,452,088
N84-27855* c 26 NASA-CASE-LEW-13639-2
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US-PATENT-CLASS-244-158A
US-PATENT-4,456,208
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US-PATENT-4,450,447
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US-PATENT-APPL-SN-737975
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US-PATENT-CLASS-375-77
US-PATENT-CLASS-375-81
US-PATENT-CLASS-455-202
US-PATENT-CLASS-455-208
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N84-28018* c 35 NASA-CASE-MFS-25754-1
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US-PATENT-CLASS-62-128
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US-PATENT-CLASS-73-170R
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N84-28019* c 35 NASA-CASE-LAR-12743-1
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US-PATENT-CLASS-372-95
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US-PATENT-CLASS-417-482
US-PATENT-4,449,894
N84-28082* c 37 NASA-CASE-GSC-12550-1
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US-PATENT-CLASS-74-573R
US-PATENT-4,458,554
N84-28083* c 37 NASA-CASE-GSC-12782-1
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US-PATENT-CLASS-269-242
US-PATENT-CLASS-269-244
US-PATENT-CLASS-269-252
US-PATENT-CLASS-269-293
US-PATENT-4,448,408
N84-28084* c 37 NASA-CASE-LAR-12644-1
US-PATENT-APPL-SN-387729
US-PATENT-CLASS-74-753
US-PATENT-CLASS-74-758
US-PATENT-CLASS-74-812
US-PATENT-4,448,757
N84-28085* c 37 NASA-CASE-LAR-12786-1
US-PATENT-APPL-SN-309292
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US-PATENT-CLASS-30-188
US-PATENT-CLASS-30-228
US-PATENT-CLASS-30-249
US-PATENT-CLASS-30-272R
US-PATENT-4,458,418
N84-28203* c 44 NASA-CASE-NPO-15388-1
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US-PATENT-CLASS-128-430
US-PATENT-CLASS-128-451
US-PATENT-4,433,672
N84-28204* c 44 NASA-CASE-NPO-15662-1
US-PATENT-APPL-SN-382103
US-PATENT-CLASS-128-419
US-PATENT-CLASS-128-430
US-PATENT-CLASS-128-440
US-PATENT-4,449,514
N84-28205* c 44 NASA-CASE-LEW-13853-1
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US-PATENT-CLASS-29-623.5
US-PATENT-CLASS-29-625
US-PATENT-CLASS-427-113
US-PATENT-CLASS-427-115

US-PATENT-CLASS-427-125
US-PATENT-CLASS-427-226
US-PATENT-CLASS-427-372.2
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-380
US-PATENT-CLASS-427-443
US-PATENT-CLASS-429-44
US-PATENT-4,454,649
N84-28292* c 47 ——— NASA-CASE-LAR-12971-1
US-PATENT-APPL-SN-444149
US-PATENT-CLASS-250-358.1
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-861.71
US-PATENT-4,449,400
N84-28361* c 51 ——— NASA-CASE-ARC-11358-1
US-PATENT-APPL-SN-392082
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US-PATENT-CLASS-521-141
US-PATENT-CLASS-521-142
US-PATENT-CLASS-521-149
US-PATENT-4,456,708
N84-28368* c 52 ——— NASA-CASE-LAR-12650-1
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US-PATENT-CLASS-128-348
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US-PATENT-4,416,288
N84-28369* c 52 ——— NASA-CASE-LAR-12650-2
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US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-289
US-PATENT-CLASS-156-382
US-PATENT-CLASS-29-423
US-PATENT-CLASS-29-451
US-PATENT-4,447,943
N84-28494* c 54 ——— NASA-CASE-MSC-20281-1
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US-PATENT-CLASS-2-164
US-PATENT-CLASS-2-167
US-PATENT-4,454,611
N84-28491* ii 80 ——— NASA-CASE-GSC-12447-2
US-PATENT-APPL-SN-128230
US-PATENT-APPL-SN-501080
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US-PATENT-4,435,781
N84-28492* c 60 ——— NASA-CASE-MSC-20258-1
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US-PATENT-CLASS-340-825.5
US-PATENT-CLASS-364-900
US-PATENT-4,446,459
N84-28585* c 70 ——— NASA-CASE-LEW-12919-2
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US-PATENT-APPL-SN-364072
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US-PATENT-CLASS-313-107
US-PATENT-CLASS-313-351
US-PATENT-CLASS-315-5.38
US-PATENT-4,348,424
US-PATENT-4,417,175
N84-28588* c 71 ——— NASA-CASE-MFS-25829-1
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US-PATENT-CLASS-366-108
US-PATENT-CLASS-425-6
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-160
US-PATENT-CLASS-65-21.3
US-PATENT-CLASS-65-21.4
US-PATENT-4,447,251
N84-28675* ii 72 ——— NASA-CASE-MFS-25841-1
US-PATENT-APPL-SN-342887
US-PATENT-CLASS-250-305
US-PATENT-CLASS-324-457
US-PATENT-CLASS-324-71.3
US-PATENT-CLASS-324-72.5
US-PATENT-4,455,532
N84-28690* c 74 ——— NASA-CASE-NPO-15805-1
US-PATENT-APPL-SN-296137
US-PATENT-CLASS-250-332
US-PATENT-CLASS-250-338
US-PATENT-4,443,701
N84-28732* c 02 ——— NASA-CASE-LAR-12398-1
US-PATENT-APPL-SN-017889
US-PATENT-CLASS-244-36R
US-PATENT-CLASS-416-223R
US-PATENT-CLASS-416-242
US-PATENT-4,459,080
N84-33447* # c 25 ——— NAS 1.71:LAR-13257-1
NASA-CASE-LAR-13257-1
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N84-33594* c 09 ——— NAS 1.71:ARC-11423-1
NASA-CASE-ARC-11423-1
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US-PATENT-CLASS-428-267
US-PATENT-CLASS-428-304.4
US-PATENT-CLASS-428-319.1
US-PATENT-CLASS-428-423.5
US-PATENT-CLASS-428-71
US-PATENT-CLASS-428-76
US-PATENT-CLASS-428-921
US-PATENT-CLASS-5-459
US-PATENT-4,463,465
N84-33400* # c 05 ——— NAS 1.71:LAR-13233-1
NASA-CASE-LAR-13233-1
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N84-33410* c 07 ——— NAS 1.71:LEW-13524-1
NASA-CASE-LEW-13524-1
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US-PATENT-CLASS-60-39.83
US-PATENT-4,416,111
N84-33450* c 18 ——— NAS 1.71:LAR-12884
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US-PATENT-CLASS-428-595
US-PATENT-CLASS-52-614
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N84-33555* c 26 ——— NAS 1.71:LEW-13639-1
NASA-CASE-LEW-13639-1
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US-PATENT-CLASS-428-678
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N84-33589* c 27 ——— NAS 1.71:NPO-15753-1
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US-PATENT-CLASS-219-522
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US-PATENT-CLASS-219-543
US-PATENT-CLASS-338-309
US-PATENT-CLASS-428-432
US-PATENT-4,459,470
N84-33660* c 33 ——— NAS 1.71:MFS-25302-2
NASA-CASE-MFS-25302-2
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US-PATENT-APPL-SN-481086
US-PATENT-CLASS-307-87
US-PATENT-CLASS-322-25
US-PATENT-CLASS-322-29
US-PATENT-CLASS-322-47
US-PATENT-CLASS-322-95
US-PATENT-4,388,585
US-PATENT-4,473,792
N84-33661* c 33 ——— NAS 1.71:MFS-25852-1
NASA-CASE-MFS-25852-1
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US-PATENT-CLASS-318-802
US-PATENT-4,460,996
N84-33663* ii 33 ——— NAS 1.71:LEW-13495-1
NASA-CASE-LEW-13495-1
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US-PATENT-CLASS-363-22
US-PATENT-CLASS-363-49
US-PATENT-4,464,710
N84-33765* c 35 ——— NAS 1.71:GSC-12982-1
NASA-CASE-GSC-12982-1
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US-PATENT-CLASS-250-368
US-PATENT-CLASS-250-483.1
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-32
US-PATENT-4,472,728
N84-33766* c 35 ——— NAS 1.71:NPO-13556-1
NASA-CASE-NPO-13556-1
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US-PATENT-CLASS-356-188
US-PATENT-CLASS-356-189
US-PATENT-CLASS-356-73
US-PATENT-CLASS-356-74
US-PATENT-4,043,668
N84-33767* c 35 ——— NAS 1.71:NPO-15644-1
NASA-CASE-NPO-15644-1
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US-PATENT-CLASS-250-252.1
US-PATENT-CLASS-250-372
US-PATENT-4,469,942
N84-33766* ii 35 ——— NAS 1.71:MFS-25717-1
NASA-CASE-MFS-25717-1
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US-PATENT-CLASS-175-45
US-PATENT-CLASS-299-1
US-PATENT-4,466,687
N84-33769* ii 35 ——— NAS 1.71:NPO-15341-1
NASA-CASE-NPO-15341-1
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US-PATENT-CLASS-318-587
US-PATENT-CLASS-340-905
US-PATENT-CLASS-340-988
US-PATENT-4,472,718
N84-33807* c 37 ——— NAS 1.71:MFS-25862-2
NASA-CASE-MFS-25862-2
US-PATENT-APPL-SN-460509
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-588
US-PATENT-4,470,280
N84-33808* c 37 ——— NAS 1.71:LEW-12995-1
NASA-CASE-LEW-12995-1
US-PATENT-APPL-SN-157150
US-PATENT-CLASS-60-303
US-PATENT-CLASS-60-606
US-PATENT-4,449,370
N84-34443* c 06 ——— NASA-CASE-NPO-15351-2
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US-PATENT-APPL-SN-412039
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US-PATENT-4,348,595
US-PATENT-4,474,062
N84-34448* ii 09 ——— NASA-CASE-LAR-12950-1
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US-PATENT-4,475,385
N84-34571* c 24 ——— NAS 1.71:LAR-13230-1
NASA-CASE-LAR-13230-1
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US-PATENT-CLASS-523-458
US-PATENT-CLASS-525-484
US-PATENT-CLASS-528-407
US-PATENT-CLASS-528-92
US-PATENT-4,473,674
N84-34651* ii 32 ——— NAS 1.71:NPO-15519-1
NASA-CASE-NPO-15519-1
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US-PATENT-CLASS-343-5-DP
US-PATENT-CLASS-343-5-FT
US-PATENT-4,471,357
N84-34705* ii 35 ——— NAS 1.71:NPO-15558-1
NASA-CASE-NPO-15558-1
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US-PATENT-CLASS-250-351
US-PATENT-CLASS-356-434
US-PATENT-CLASS-356-51
US-PATENT-4,474,471
N84-34792* c 44 ——— NAS 1.71:NPO-15808-1
NASA-CASE-NPO-15808-1
US-PATENT-APPL-SN-383068
US-PATENT-CLASS-126-415
US-PATENT-CLASS-4-496
US-PATENT-4,470,403
N84-34913* ii 52 ——— NASA-CASE-GSC-12852-1
US-PATENT-APPL-SN-377891
US-PATENT-CLASS-128-24-A
US-PATENT-CLASS-128-328
US-PATENT-4,474,190
N84-35112* # c 76 ——— NASA-CASE-NPO-15799-1
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US-PATENT-CLASS-204-1T
US-PATENT-CLASS-204-37.6
US-PATENT-CLASS-204-56R
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-158T
US-PATENT-4,462,871
N84-35113* ii 76 ——— NASA-CASE-NPO-15829-1
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US-PATENT-CLASS-156-DIG.64
US-PATENT-CLASS-156-DIG.89
US-PATENT-CLASS-156-DIG.98
US-PATENT-CLASS-156-609
US-PATENT-CLASS-156-617.SP
US-PATENT-CLASS-156-617.W
US-PATENT-CLASS-422-248
US-PATENT-CLASS-422-249
US-PATENT-4,469,552
N85-19988* c 08 ——— NAS 1.71:LAR-12787-2
NASA-CASE-LAR-12787-2

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US-PATENT-APPL-SN-5226828
US-PATENT-CLASS-244-214
US-PATENT-CLASS-244-90R
US-PATENT-4,485,992
N85-19990* c 09 NAS 1.71:KSC-11218-1
NASA-CASE-KSC-11218-1
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US-PATENT-CLASS-434-243
US-PATENT-CLASS-434-35
US-PATENT-CLASS-434-49
US-PATENT-4,490,117
N85-20123* c 27 NAS 1.71:LAR-12723-1
NASA-CASE-LAR-12723-1
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US-PATENT-CLASS-528-183
US-PATENT-CLASS-528-192
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-336
US-PATENT-CLASS-528-345
US-PATENT-4,395,540
N85-20124* c 27 NAS 1.71:LAR-12858-2
NASA-CASE-LAR-12858-2
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US-PATENT-CLASS-264-112
US-PATENT-CLASS-264-120
US-PATENT-CLASS-264-137
US-PATENT-CLASS-264-152
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-331.12
US-PATENT-CLASS-264-331.19
US-PATENT-CLASS-528-275
US-PATENT-CLASS-528-239
US-PATENT-CLASS-528-241
US-PATENT-CLASS-528-258
US-PATENT-CLASS-528-279
US-PATENT-4,398,021
US-PATENT-4,480,027
N85-20125* c 27 NAS 1.71:LAR-12894-1
NASA-CASE-LAR-12894-1
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US-PATENT-CLASS-24-304
US-PATENT-CLASS-24-447
US-PATENT-CLASS-24-450
US-PATENT-CLASS-24-693
US-PATENT-4,468,335
N85-20126* c 27 NAS 1.71:MFS-25862-1
NASA-CASE-MFS-25862-1
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US-PATENT-CLASS-73-582
US-PATENT-CLASS-73-588
US-PATENT-4,479,386
N85-20153* c 31 NAS 1.71:LEW-14080-1
NASA-CASE-LEW-14080-1
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US-PATENT-CLASS-204-192R
US-PATENT-CLASS-204-192SP
US-PATENT-CLASS-423-DIG.10
US-PATENT-CLASS-423-414
US-PATENT-CLASS-423-445
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-449
US-PATENT-4,490,229
N85-20254* c 35 NAS 1.71:GSC-12789-1
NASA-CASE-GSC-12789-1
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US-PATENT-CLASS-177-260
US-PATENT-CLASS-73-862.54
US-PATENT-4,479,560
N85-20296* c 35 NAS 1.71:LAR-13065-1
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US-PATENT-4,485,671
N85-20300*# c 35 NAS 1.71:MFS-28008-1
NASA-CASE-MFS-28008-1
US-PATENT-APPL-SN-684184
N85-20337* c 37 NAS 1.71:GSC-12582-2
NASA-CASE-GSC-12582-2
US-PATENT-APPL-SN-220213
US-PATENT-APPL-SN-415960
US-PATENT-CLASS-104-281
US-PATENT-CLASS-104-284
US-PATENT-CLASS-306-10
US-PATENT-4,473,259
N85-20338* c 37 NAS 1.71:MSC-20112-1
NASA-CASE-MSC-20112-1
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US-PATENT-CLASS-251-267
US-PATENT-CLASS-251-284
US-PATENT-CLASS-251-297
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US-PATENT-CLASS-74-424.8VA
US-PATENT-4,483,512
N85-20530* c 44 NAS 1.71:LEW-13414-1
NASA-CASE-LEW-13414-1
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US-PATENT-CLASS-427-85
US-PATENT-4,478,879
N85-21147* c 05 NAS 1.71:LAR-12979-1
NASA-CASE-LAR-12979-1
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US-PATENT-CLASS-244-147
US-PATENT-CLASS-244-75R
US-PATENT-4,4x6,122
N85-21178* c 09 NAS 1.71:LAR-13014-1
NASA-CASE-LAR-13014-1
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N85-21256* c 20 NAS 1.71:LEW-13881-1
NASA-CASE-LEW-13881-1
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US-PATENT-CLASS-60-202
US-PATENT-4,466,242
N85-21266* c 24 NAS 1.71:LEW-13324-2
NASA-CASE-LEW-13324-2
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US-PATENT-APPL-SN-523297
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US-PATENT-CLASS-428-656
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US-PATENT-4,485,151
N85-21267* c 24 NAS 1.71:LEW-13837-2
NASA-CASE-LEW-13837-2
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US-PATENT-CLASS-204-192N
US-PATENT-CLASS-204-192R
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US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-449
US-PATENT-CLASS-427-39
US-PATENT-4,437,962
US-PATENT-4,495,044
N85-21279* c 25 NAS 1.71:GSC-12808-1
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US-PATENT-CLASS-376-158
US-PATENT-4,483,817
N85-21280* c 25 NAS 1.71:MFS-25721-1
NASA-CASE-MFS-25721-1
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US-PATENT-4,474,975
N85-21347* c 27 NAS 1.71:ARC-11368-2
NASA-CASE-ARC-11368-2
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US-PATENT-APPL-SN-286267
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US-PATENT-CLASS-526-274
US-PATENT-CLASS-526-167
US-PATENT-CLASS-526-168
US-PATENT-CLASS-526-170
US-PATENT-CLASS-526-321
US-PATENT-CLASS-526-322
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US-PATENT-4,496,701
N85-21348* c 27 NASA-CASE-ARC-11413-1
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US-PATENT-CLASS-526-126
US-PATENT-CLASS-526-128
US-PATENT-CLASS-526-166
US-PATENT-CLASS-526-185
US-PATENT-CLASS-526-186
US-PATENT-CLASS-526-187
US-PATENT-CLASS-526-226
US-PATENT-CLASS-526-229
US-PATENT-CLASS-526-352
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US-PATENT-4,499,260

N85-21349* c 27 NAS 1.71:LAR-12775-2
NASA-CASE-LAR-12775-2
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US-PATENT-APPL-SN-461788
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US-PATENT-CLASS-525-183
US-PATENT-CLASS-525-184
US-PATENT-CLASS-525-474
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N85-21350* c 27 NAS 1.71:LEW-13770-3
NASA-CASE-LEW-13770-3
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US-PATENT-APPL-SN-561431
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US-PATENT-CLASS-526-262
US-PATENT-CLASS-526-229
US-PATENT-CLASS-526-315
US-PATENT-CLASS-526-322
US-PATENT-CLASS-526-336
US-PATENT-CLASS-526-342
US-PATENT-4,497,948
N85-21351* c 27 NAS 1.71:LEW-13770-4
NASA-CASE-LEW-13770-4
US-PATENT-APPL-SN-516217
US-PATENT-APPL-SN-561429
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US-PATENT-CLASS-526-229
US-PATENT-CLASS-526-322
US-PATENT-CLASS-526-342
US-PATENT-4,497,939
N85-21352* c 27 NAS 1.71:LEW-13770-5
NASA-CASE-LEW-13770-5
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US-PATENT-APPL-SN-561435
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US-PATENT-CLASS-526-229
US-PATENT-CLASS-526-322
US-PATENT-CLASS-526-342
US-PATENT-4,497,940
N85-21404* c 31 NAS 1.71:GSC-12799-1
NASA-CASE-GSC-12799-1
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US-PATENT-CLASS-310-22
US-PATENT-CLASS-417-417
US-PATENT-CLASS-417-488
US-PATENT-CLASS-62-6
US-PATENT-CLASS-62-98R
US-PATENT-4,500,265
N85-21427* c 32 NAS 1.71:MSC-18578-1
NASA-CASE-MSC-18578-1
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US-PATENT-CLASS-358-161
US-PATENT-CLASS-358-174
US-PATENT-CLASS-358-217
US-PATENT-CLASS-358-219
US-PATENT-4,496,520
N85-21429* c 32 NAS 1.71:NPO-15433-1
NASA-CASE-NPO-15433-1
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US-PATENT-CLASS-315-111.81
US-PATENT-4,475,063
N85-21492* c 33 NAS 1.71:LEW-13833-1
NASA-CASE-LEW-13833-1
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US-PATENT-CLASS-357-12
US-PATENT-CLASS-357-30
US-PATENT-4,482,779
N85-21493* c 33 NAS 1.71:NPO-15920-1
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US-PATENT-CLASS-343-376
US-PATENT-4,488,155
N85-21568* c 34 NAS 1.71:LAR-12588-1
NASA-CASE-LAR-12588-1
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US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-73-170
US-PATENT-CLASS-73-708
US-PATENT-4,485,670
N85-21595* c 35 NAS 1.71:MSC-20275-1
NASA-CASE-MSC-20275-1
US-PATENT-APPL-SN-425206
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US-PATENT-CLASS-222-43
US-PATENT-CLASS-222-48
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US-PATENT-CLASS-429-58
US-PATENT-4,490,424
N85-21597* c 35 NAS 1.71:NPO-16027-1
NASA-CASE-NPO-16027-1
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US-PATENT-CLASS-73-753
US-PATENT-4,498,333
N85-21598* c 35 NAS 1.71:WLP-10055-2
NASA-CASE-WLP-10055-2
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US-PATENT-CLASS-250-343
US-PATENT-4,489,239
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NASA-CASE-GSC-12558-1
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US-PATENT-CLASS-356-45
US-PATENT-CLASS-374-137
US-PATENT-CLASS-73-705
US-PATENT-4,493,563
N85-21649* c 37 NAS 1.71:MSC-20319-1
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US-PATENT-CLASS-81-177G
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US-PATENT-CLASS-125-15
US-PATENT-CLASS-51-73R
US-PATENT-CLASS-82-90
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US-PATENT-CLASS-83-676
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US-PATENT-CLASS-290-4R
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US-PATENT-CLASS-307-66
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US-PATENT-CLASS-318-729
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US-PATENT-CLASS-343-5W
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N85-21992* c 60 NAS 1.71:NPO-15295-1
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US-PATENT-CLASS-55-15
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US-PATENT-CLASS-350-619
US-PATENT-CLASS-356-323
US-PATENT-CLASS-356-330
US-PATENT-CLASS-356-331
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US-PATENT-CLASS-528-288
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US-PATENT-CLASS-528-304
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N85-29082* c 31 NASA-CASE-NPO-16257-1
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US-PATENT-CLASS-158-273.9
US-PATENT-CLASS-158-380.2
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US-PATENT-CLASS-219-10.49
US-PATENT-CLASS-219-10.53
US-PATENT-CLASS-219-10.77
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N85-29145* ii 33 NASA-CASE-GSC-12788-1
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US-PATENT-CLASS-307-529
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US-PATENT-CLASS-363-23
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US-PATENT-CLASS-310-306
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N85-29180* c 34 NASA-CASE-MSC-20497-1
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US-PATENT-CLASS-122-366
US-PATENT-CLASS-165-1
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US-PATENT-4,515,207
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N85-29212* ii 35 NASA-CASE-NPO-15722-1
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US-PATENT-CLASS-204-430
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US-PATENT-CLASS-422-86
US-PATENT-CLASS-422-99
US-PATENT-CLASS-435-2
US-PATENT-CLASS-73-40.7
US-PATENT-CLASS-73-863.86
US-PATENT-CLASS-73-864.52
US-PATENT-4,515,751
N85-29214* c 35 NASA-CASE-MSC-25707-1
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US-PATENT-CLASS-165-46R
US-PATENT-CLASS-165-81
US-PATENT-CLASS-165-84
US-PATENT-CLASS-244-160
US-PATENT-4,513,810
N85-29264* c 36 NASA-CASE-NPO-16000-1

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US-PATENT-APPL-SN-431420
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US-PATENT-CLASS-239-327
US-PATENT-CLASS-239-375
US-PATENT-CLASS-239-590
US-PATENT-CLASS-55-DIG.42
US-PATENT-4,519,545
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US-PATENT-CLASS-52-171
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US-PATENT-CLASS-416-500
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US-PATENT-CLASS-248-555
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US-PATENT-CLASS-403-90
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US-PATENT-CLASS-427-37
US-PATENT-CLASS-427-402
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US-PATENT-CLASS-526-262
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US-PATENT-CLASS-528-322
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US-PATENT-CLASS-372-50
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US-PATENT-CLASS-336-100
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US-PATENT-CLASS-136-261
US-PATENT-CLASS-357-30
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US-PATENT-CLASS-139-738
US-PATENT-CLASS-374-117
US-PATENT-CLASS-374-160
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US-PATENT-CLASS-148-33.2
US-PATENT-CLASS-156-DIG.65
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-612
US-PATENT-CLASS-29-576E
US-PATENT-CLASS-29-576J
US-PATENT-CLASS-29-576W
US-PATENT-CLASS-29-578
US-PATENT-CLASS-357-4
US-PATENT-CLASS-357-50
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US-PATENT-CLASS-384-853
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US-PATENT-CLASS-428-913
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US-PATENT-CLASS-315-39.3
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N86-26352* c 16 ..... NASA-CASE-MFS-25966-1
US-PATENT-APPL-SN-643522
US-PATENT-CLASS-244-161
US-PATENT-4,582,277
N86-26368* c 20 ..... NASA-CASE-MFS-25946-1
US-PATENT-APPL-SN-561432
US-PATENT-CLASS-244-158.R
US-PATENT-CLASS-244-169
US-PATENT-CLASS-60-203.1
US-PATENT-CLASS-60-39.465
US-PATENT-4,585,191
N86-26575*# c 34 ..... NAS 1.71:LAR-13532-1
NASA-CASE-LAR-13532-1
US-PATENT-APPL-SN-638649
N86-26595* c 35 ..... NASA-CASE-MSC-20653-1
US-PATENT-APPL-SN-659474
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US-PATENT-CLASS-73-863.31
US-PATENT-CLASS-73-863.72
US-PATENT-CLASS-73-864.34
US-PATENT-4,584,887
N86-26598*# c 35 ..... NAS 1.71:MFS-26002-1-CU
NASA-CASE-MFS-26002-1-CU
US-PATENT-APPL-SN-765991
N86-27270* c 04 ..... NASA-CASE-NPO-16171-1CU
US-PATENT-APPL-SN-551536
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US-PATENT-CLASS-343-418
US-PATENT-4,578,678
N86-27280* c 06 ..... NASA-CASE-LAR-12518-1
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US-PATENT-CLASS-340-968
US-PATENT-CLASS-364-433
US-PATENT-CLASS-364-435
US-PATENT-CLASS-73-178T
US-PATENT-4,586,140
N86-27288* c 08 ..... NASA-CASE-ARC-11372-1
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US-PATENT-CLASS-244-234
US-PATENT-CLASS-250-211K

US-PATENT-CLASS-318-584
US-PATENT-CLASS-318-640
US-PATENT-4,584,510

N86-27431* c 25 ..... NASA-CASE-MSC-20206-1
US-PATENT-APPL-SN-478129
US-PATENT-CLASS-141-198
US-PATENT-CLASS-200-61.05
US-PATENT-CLASS-340-605
US-PATENT-4,591,838

N86-27450* c 27 ..... NASA-CASE-LAR-13316-1
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US-PATENT-CLASS-260-544P
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US-PATENT-CLASS-526-285
US-PATENT-CLASS-528-171
US-PATENT-CLASS-528-174
US-PATENT-CLASS-528-176
US-PATENT-4,587,312

N86-27451* c 27 ..... NASA-CASE-ARC-11427-2
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US-PATENT-CLASS-523-445
US-PATENT-CLASS-523-461
US-PATENT-CLASS-525-108
US-PATENT-CLASS-525-115
US-PATENT-CLASS-525-119
US-PATENT-CLASS-525-122
US-PATENT-4,588,778

N86-27513* c 32 ..... NASA-CASE-KSC-11285-1
US-PATENT-APPL-SN-655601
US-PATENT-CLASS-179-18BC
US-PATENT-CLASS-340-347DD
US-PATENT-CLASS-365-768
US-PATENT-4,588,986

N86-27593* c 34 ..... NASA-CASE-MSC-20812-1
US-PATENT-APPL-SN-616002
US-PATENT-CLASS-122-366
US-PATENT-CLASS-165-104.14
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-41
US-PATENT-4,583,587

N86-27629* c 37 ..... NASA-CASE-ARC-11525-1
US-PATENT-APPL-SN-681041
US-PATENT-CLASS-318-48
US-PATENT-CLASS-318-632
US-PATENT-CLASS-318-663
US-PATENT-CLASS-318-8
US-PATENT-4,591,772

N86-27630* c 37 ..... NASA-CASE-LAR-13250-1
US-PATENT-APPL-SN-573162
US-PATENT-CLASS-403-312
US-PATENT-CLASS-403-388
US-PATENT-CLASS-403-408.1
US-PATENT-4,579,475

N86-27706* c 44 ..... NASA-CASE-NPO-16236-1
US-PATENT-APPL-SN-582495
US-PATENT-CLASS-126-418
US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-438
US-PATENT-4,586,487

N86-28131* c 24 ..... NASA-CASE-ARC-11615-1SB
US-PATENT-APPL-SN-706682
US-PATENT-CLASS-428-116
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-921
US-PATENT-CLASS-526-265
US-PATENT-4,598,007

N86-28618* c 54 ..... NASA-CASE-ARC-11616-1
US-PATENT-APPL-SN-684193
US-PATENT-CLASS-128-202.11
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-2.1R
US-PATENT-CLASS-414-1
US-PATENT-CLASS-414-5
US-PATENT-CLASS-414-7
US-PATENT-CLASS-414-8
US-PATENT-4,593,415

N86-28619* c 54 ..... NASA-CASE-ARC-11610-1
US-PATENT-APPL-SN-684190
US-PATENT-CLASS-138-120
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-2.1R
US-PATENT-CLASS-285-168
US-PATENT-4,598,427

N86-28620* c 54 ..... NASA-CASE-ARC-11543-1
US-PATENT-APPL-SN-684192
US-PATENT-CLASS-138-120
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-285-168
US-PATENT-CLASS-414-7
US-PATENT-4,594,734

N86-28732* c 74 ..... NASA-CASE-GSC-12825-1
US-PATENT-APPL-SN-698641
US-PATENT-CLASS-350-276R
US-PATENT-CLASS-350-505
US-PATENT-CLASS-354-479
US-PATENT-CLASS-358-222
US-PATENT-4,598,981

N86-28760* c 78 ..... NASA-CASE-NPO-15904-1
US-PATENT-APPL-SN-465369
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-610
US-PATENT-CLASS-156-624
US-PATENT-4,596,626

N86-29039* c 27 ..... NASA-CASE-LAR-13353-1
US-PATENT-APPL-SN-643524
US-PATENT-CLASS-264-204
US-PATENT-CLASS-264-216
US-PATENT-CLASS-264-236
US-PATENT-CLASS-264-347
US-PATENT-CLASS-528-183
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-341
US-PATENT-4,595,548

N86-29055* c 31 ..... NASA-CASE-MFS-25825-1
US-PATENT-APPL-SN-657309
US-PATENT-CLASS-318-605
US-PATENT-CLASS-318-636
US-PATENT-CLASS-318-661
US-PATENT-CLASS-340-347CC
US-PATENT-CLASS-340-347SY
US-PATENT-4,594,540

N86-29174* c 35 ..... NASA-CASE-LAR-13254-1CU
US-PATENT-APPL-SN-668432
US-PATENT-CLASS-261-78A
US-PATENT-CLASS-55-255
US-PATENT-CLASS-55-259
US-PATENT-CLASS-55-521
US-PATENT-CLASS-55-528
US-PATENT-4,595,399

N86-29204* c 36 ..... NAS 1.71:LAR-13256-1
NASA-CASE-LAR-13256-1
US-PATENT-APPL-SN-745973
US-PATENT-CLASS-372-79
US-PATENT-4,594,720

N86-29507* # c 54 ..... NASA-CASE-ARC-11534-1
US-PATENT-APPL-SN-642602
US-PATENT-CLASS-138-120
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-285-168
US-PATENT-CLASS-285-184
US-PATENT-CLASS-285-227
US-PATENT-CLASS-403-164
US-PATENT-4,598,428

N86-29650* # c 74 ..... NASA-CASE-GSC-12911-1
US-PATENT-APPL-SN-606426
US-PATENT-CLASS-350-315
US-PATENT-CLASS-350-318
US-PATENT-CLASS-356-402
US-PATENT-CLASS-356-419
US-PATENT-4,599,001

N86-31726* # c 27 ..... NASA-CASE-ARC-11421-2
US-PATENT-APPL-SN-739760
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-526-170
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-321
US-PATENT-CLASS-528-322
US-PATENT-4,600,769

N86-31727* c 27 ..... NASA-CASE-LAR-13351-1
US-PATENT-APPL-SN-643589
US-PATENT-CLASS-264-212
US-PATENT-CLASS-264-236
US-PATENT-CLASS-427-162
US-PATENT-CLASS-427-164
US-PATENT-CLASS-427-165
US-PATENT-CLASS-428-336
US-PATENT-CLASS-428-473.5
US-PATENT-4,603,061

N86-32266* c 74 ..... NASA-CASE-GSC-12761-1
US-PATENT-APPL-SN-406820
US-PATENT-CLASS-356-4.5
US-PATENT-CLASS-356-5
US-PATENT-4,600,299

N86-32447* c 09 ..... NASA-CASE-ARC-11504-1
US-PATENT-APPL-SN-565481
US-PATENT-CLASS-356-73
US-PATENT-4,605,303

N86-32525* c 23 ..... NASA-CASE-ARC-11506-2
US-PATENT-APPL-SN-641142
US-PATENT-CLASS-528-108
US-PATENT-CLASS-528-124
US-PATENT-CLASS-528-337
US-PATENT-CLASS-528-352
US-PATENT-CLASS-528-399
US-PATENT-CLASS-528-406
US-PATENT-CLASS-528-407
US-PATENT-4,587,324

N86-32526* # c 23 ..... NAS 1.71:LAR-13555-1
NASA-CASE-LAR-13555-1
US-PATENT-APPL-SN-871207

N86-32550* c 26 ..... NASA-CASE-GSC-12880-1
US-PATENT-APPL-SN-590925
US-PATENT-CLASS-427-191
US-PATENT-CLASS-427-192
US-PATENT-CLASS-427-421
US-PATENT-CLASS-427-427
US-PATENT-4,552,784

N86-32551* c 26 ..... NASA-CASE-NPO-15658-1
US-PATENT-APPL-SN-451896
US-PATENT-CLASS-219-121LE
US-PATENT-CLASS-219-121LY
US-PATENT-CLASS-264-5
US-PATENT-CLASS-425-6
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-21.2
US-PATENT-CLASS-73-505
US-PATENT-4,553,917

N86-32568* # c 27 ..... NASA-CASE-ARC-11512-2
US-PATENT-APPL-SN-641153
US-PATENT-CLASS-528-336
US-PATENT-CLASS-528-337
US-PATENT-CLASS-528-340
US-PATENT-CLASS-528-347
US-PATENT-CLASS-564-15
US-PATENT-CLASS-568-14
US-PATENT-4,602,081

N86-32569* c 27 ..... NASA-CASE-LEW-14072-2
US-PATENT-APPL-SN-761235
US-PATENT-CLASS-204-192C
US-PATENT-CLASS-204-192D
US-PATENT-CLASS-204-298
US-PATENT-4,604,181

N86-32587* c 31 ..... NASA-CASE-LEW-14130-1
US-PATENT-APPL-SN-659475
US-PATENT-CLASS-204-192C
US-PATENT-CLASS-204-192D
US-PATENT-CLASS-204-298
US-PATENT-CLASS-313-106
US-PATENT-CLASS-313-107
US-PATENT-CLASS-315-5.38
US-PATENT-CLASS-427-39
US-PATENT-4,607,193

N86-32589* # c 31 ..... NAS 1.71:MFS-28153-1
NASA-CASE-MFS-28153-1
US-PATENT-APPL-SN-875891

N86-32624* c 33 ..... NASA-CASE-GSC-12958-1
US-PATENT-APPL-SN-727035
US-PATENT-CLASS-331-108D
US-PATENT-CLASS-331-116R
US-PATENT-CLASS-331-66
US-PATENT-CLASS-374-183
US-PATENT-4,603,306

N86-32695* # c 35 ..... NASA-CASE-NPO-16479-ICU
US-PATENT-APPL-SN-719794
US-PATENT-CLASS-73-502
US-PATENT-CLASS-73-521
US-PATENT-4,602,509

N86-32696* c 35 ..... NASA-CASE-LAR-13294-1
US-PATENT-APPL-SN-706681
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-862.04
US-PATENT-CLASS-73-862.61
US-PATENT-4,604,903

N86-32697* c 35 ..... NAS 1.71:ARC-11510-1
NASA-CASE-ARC-11510-1
US-PATENT-APPL-SN-602049
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-356-72
US-PATENT-CLASS-356-73
US-PATENT-CLASS-434-4
US-PATENT-4,600,301

N86-32698* c 35 ..... NASA-CASE-MFS-25833-1
US-PATENT-APPL-SN-473827
US-PATENT-CLASS-324-226
US-PATENT-CLASS-324-238
US-PATENT-CLASS-324-240
US-PATENT-CLASS-324-262
US-PATENT-CLASS-73-37.5
US-PATENT-4,551,677

N86-32736* # c 37 ..... NASA-CASE-MFS-19796-1
US-PATENT-APPL-SN-770920
US-PATENT-CLASS-138-97
US-PATENT-CLASS-165-76
US-PATENT-CLASS-228-119
US-PATENT-CLASS-29-402.16
US-PATENT-4,605,155

N86-32737* c 37 ..... NASA-CASE-LAR-13081-1
US-PATENT-APPL-SN-780378
US-PATENT-CLASS-52-111
US-PATENT-CLASS-52-632
US-PATENT-CLASS-52-645
US-PATENT-CLASS-52-646
US-PATENT-4,604,844

N86-32738* c 37 ..... NASA-CASE-MFS-28059-1
US-PATENT-APPL-SN-709255
US-PATENT-CLASS-417-475

N86-32875* c 44 ..... NASA-CASE-LEW-14177-1
US-PATENT-APPL-SN-669140
US-PATENT-CLASS-136-261
US-PATENT-CLASS-148-1.5
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-576B
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-91
US-PATENT-4,608,452

N86-33127* c 72 ..... NASA-CASE-NPO-16372-1
US-PATENT-APPL-SN-703847
US-PATENT-CLASS-250-336.1
US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-340
US-PATENT-4,600,840

N86-33138*# c 74 ..... NAS 1.71:NPO-16669
NASA-CASE-NPO-16869-1CU
US-PATENT-APPL-SN-867986

N87-10231*# c 33 ..... NAS 1.71:NPO-16784-1
NASA-CASE-NPO-16784-1
US-PATENT-APPL-SN-879757

N87-13313* c 76 ..... NASA-CASE-NPO-16045-1
US-PATENT-APPL-SN-641146
US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-370
US-PATENT-CLASS-357-23.1
US-PATENT-CLASS-357-23.12
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-32
US-PATENT-4,605,946

N87-14314* c 05 ..... NASA-CASE-LAR-13173-1
US-PATENT-APPL-SN-690274
US-PATENT-CLASS-244-118.1
US-PATENT-CLASS-244-137-A
US-PATENT-CLASS-244-17.27
US-PATENT-CLASS-248-638
US-PATENT-CLASS-89-1.54
US-PATENT-4,616,793

N87-14355* c 09 ..... NASA-CASE-MFS-28057-1
US-PATENT-APPL-SN-729766
US-PATENT-CLASS-350-319
US-PATENT-4,618,215

N87-14373* c 18 ..... NASA-CASE-MSC-20635-1
US-PATENT-APPL-SN-588039
US-PATENT-CLASS-16-294
US-PATENT-CLASS-16-370
US-PATENT-CLASS-403-102
US-PATENT-CLASS-403-119
US-PATENT-CLASS-403-146
US-PATENT-CLASS-403-163
US-PATENT-CLASS-403-85
US-PATENT-4,615,637

N87-14413*# c 18 ..... NAS 1.71:LAR-13490-1
NASA-CASE-LAR-13490-1

N87-14420* c 20 ..... US-PATENT-APPL-SN-899683
NASA-CASE-MFS-25969-1
US-PATENT-APPL-SN-690273
US-PATENT-CLASS-239-132.5
US-PATENT-CLASS-239-403
US-PATENT-CLASS-239-425
US-PATENT-CLASS-60-258
US-PATENT-CLASS-60-746
US-PATENT-4,621,492

N87-14482* c 26 ..... NASA-CASE-LEW-13834-1
US-PATENT-APPL-SN-478131
US-PATENT-CLASS-148-429
US-PATENT-CLASS-420-460
US-PATENT-4,610,736

N87-14515* c 27 ..... NASA-CASE-LAR-13316-2
US-PATENT-APPL-SN-760791
US-PATENT-CLASS-260-544-P
US-PATENT-4,622,182

N87-14516* c 27 ..... NASA-CASE-LAR-13318-1
US-PATENT-APPL-SN-781813
US-PATENT-CLASS-428-262
US-PATENT-CLASS-428-447
US-PATENT-CLASS-528-26
US-PATENT-4,624,888

N87-14559* c 32 ..... NASA-CASE-LAR-13310-1
US-PATENT-APPL-SN-709257
US-PATENT-CLASS-356-5
US-PATENT-CLASS-367 99
US-PATENT-CLASS-73-597
US-PATENT-CLASS-73-615
US-PATENT-4,624,142

N87-14594* c 33 ..... NASA-CASE-NPO-16299-1
US-PATENT-APPL-SN-541526
US-PATENT-CLASS-356-389
US-PATENT-4,623,255

N87-14669* c 35 ..... NASA-CASE-LAR-13268-1
US-PATENT-APPL-SN-727034
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-356-301
US-PATENT-4,624,561

N87-14670* c 35 ..... NASA-CASE-MFS-25981-1
US-PATENT-APPL-SN-657310
US-PATENT-CLASS-73-462
US-PATENT-CLASS-73-473
US-PATENT-CLASS-73-477
US-PATENT-4,619,142

N87-14671* c 35 ..... NASA-CASE-GSC-12956-1
US-PATENT-APPL-SN-745977
US-PATENT-CLASS-148-187
US-PATENT-CLASS-148-188
US-PATENT-CLASS-148-189
US-PATENT-CLASS-148-190
US-PATENT-CLASS-29-580
US-PATENT-CLASS-29-591
US-PATENT-4,618,380

N87-14704*# c 37 ..... NAS 1.71:NPO-16892-1-CU
NASA-CASE-NPO-16892-1-CU
US-PATENT-APPL-SN-921573

N87-14863*# c 60 ..... NAS 1.71:MSC-20964-1
NASA-CASE-MSC-20964-1
US-PATENT-APPL-SN-878916

N87-14971* c 74 ..... NASA-CASE-MFS-26000-1
US-PATENT-APPL-SN-571615
US-PATENT-CLASS-356-246
US-PATENT-CLASS-372-61
US-PATENT-4,614,428

N87-15304* c 27 ..... NASA-CASE-ARC-11429-4CU
US-PATENT-APPL-SN-725686
US-PATENT-CLASS-525-282
US-PATENT-4,618,652

N87-15390*# c 32 ..... NAS 1.71:NPO-16632-1-CU
NASA-CASE-NPO-16632-1-CU
US-PATENT-APPL-SN-890586

N87-15413*# c 33 ..... NAS 1.71:NPO-16932-1
NASA-CASE-NPO-16932-1CU
US-PATENT-APPL-SN-913433

N87-15465*# c 37 ..... NAS 1.71:MSC-20761-1
NASA-CASE-MSC-20761-1
US-PATENT-APPL-SN-913446

N87-15882* c 76 ..... NASA-CASE-NPO-15813-2
US-PATENT-APPL-SN-706564
US-PATENT-CLASS-148-174
US-PATENT-CLASS-148-175
US-PATENT-CLASS-29-575
US-PATENT-CLASS-29-576-E
US-PATENT-CLASS-29-576-J
US-PATENT-CLASS-29-576-W
US-PATENT-CLASS-29-578
US-PATENT-4,612,072

N87-16793* c 02 ..... NASA-CASE-LAR-13255-1
US-PATENT-APPL-SN-550681
US-PATENT-CLASS-244-130
US-PATENT-CLASS-244-200
US-PATENT-CLASS-244-204
US-PATENT-CLASS-244-35R
US-PATENT-4,619,423

N87-16828* c 07 ..... NASA-CASE-LAR-13134-2
US-PATENT-APPL-SN-846462
US-PATENT-CLASS-244-130
US-PATENT-CLASS-244-55
US-PATENT-4,629,147

N87-16863* c 17 ..... NASA-CASE-LAR-13006-1
US-PATENT-APPL-SN-470113
US-PATENT-CLASS-340-825.5
US-PATENT-CLASS-340-870.18
US-PATENT-CLASS-371-63
US-PATENT-CLASS-375-98
US-PATENT-4,631,538

N87-16875* c 20 ..... NASA-CASE-LEW-14037-1
US-PATENT-APPL-SN-636463
US-PATENT-CLASS-219-275
US-PATENT-CLASS-60-203.1
US-PATENT-4,608,821

N87-15907* c 27 ..... NASA-CASE-LAR-13118-2
US-PATENT-APPL-SN-760797
US-PATENT-CLASS-560-104
US-PATENT-4,638,083

N87-16908* c 27 ..... NASA-CASE-ARC-11429-3CU
US-PATENT-APPL-SN-725725
US-PATENT-CLASS-546-339
US-PATENT-CLASS-546-346
US-PATENT-CLASS-546-350
US-PATENT-4,626,593

N87-16909* c 27 ..... NASA-CASE-ARC-11428-2
US-PATENT-APPL-SN-760374
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-428-500
US-PATENT-CLASS-428-704
US-PATENT-CLASS-528-168
US-PATENT-CLASS-528-321
US-PATENT-CLASS-528-322
US-PATENT-4,634,759

N87-16918* c 31 ..... NASA-CASE-ARC-11363-1
US-PATENT-APPL-SN-500046
US-PATENT-CLASS-52-126.5
US-PATENT-CLASS-52-309.15
US-PATENT-CLASS-52-391
US-PATENT-CLASS-52-511
US-PATENT-CLASS-52-814
US-PATENT-4,637,181

N87-17026* c 36 ..... NASA-CASE-ARC-11547-1
US-PATENT-APPL-SN-692745
US-PATENT-CLASS-356-28
US-PATENT-CLASS-356-28.5
US-PATENT-4,632,548

N87-17034* c 37 ..... NASA-CASE-NPO-16321-1CU
US-PATENT-APPL-SN-692802
US-PATENT-CLASS-305-36
US-PATENT-CLASS-305-51
US-PATENT-CLASS-305-58PC
US-PATENT-CLASS-305-58R
US-PATENT-CLASS-474-220
US-PATENT-4,626,046

N87-17035* c 37 ..... NASA-CASE-MSC-20857-1
US-PATENT-APPL-SN-783886
US-PATENT-CLASS-134-166C
US-PATENT-CLASS-134-93
US-PATENT-CLASS-210-282
US-PATENT-4,635,663

N87-17036* c 37 ..... NASA-CASE-MSC-20162-1
US-PATENT-APPL-SN-764805
US-PATENT-CLASS-135-903
US-PATENT-CLASS-160-23R
US-PATENT-CLASS-160-265
US-PATENT-CLASS-244-121
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-296-100
US-PATENT-4,637,447

N87-17037* c 37 ..... NASA-CASE-MSC-20475-1
US-PATENT-APPL-SN-725689
US-PATENT-CLASS-192-46
US-PATENT-CLASS-192-67R
US-PATENT-4,635,773

N87-17038* c 37 ..... NASA-CASE-GSC-12957-1
US-PATENT-APPL-SN-800193
US-PATENT-CLASS-310-90.5
US-PATENT-4,634,191

N87-17399* c 44 ..... NASA-CASE-NPO-16526-1CU
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US-PATENT-CLASS-136-249
US-PATENT-4,631,352

N87-17493* c 74 ..... NASA-CASE-MFS-29134-1
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US-PATENT-CLASS-219-130.01
US-PATENT-4,633,060

N87-18613*# c 24 ..... NAS 1.71:LAR-13562-1
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US-PATENT-APPL-SN-921572

N87-18679*# c 29 ..... NAS 1.71:MFS-28139-1
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US-PATENT-APPL-SN-911851

N87-18692*# c 32 ..... NAS 1.71:MSC-20865-1
NASA-CASE-MSC-20865-1
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N87-18817*# c 37 ..... NAS 1.71:MFS-28161-1
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US-PATENT-APPL-SN-942159

N87-18818*# c 37 ..... NAS 1.71:MSC-20907-1
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US-PATENT-4,648,569

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US-PATENT-CLASS-65-134
US-PATENT-CLASS-65-136
US-PATENT-CLASS-65-2
US-PATENT-4,654,065

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US-PATENT-CLASS-528-229
US-PATENT-CLASS-528-322
US-PATENT-CLASS-528-327
US-PATENT-CLASS-528-331
US-PATENT-CLASS-528-362
US-PATENT-4,649,189

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US-PATENT-CLASS-62-48
US-PATENT-CLASS-62-514-R
US-PATENT-4,641,499

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US-PATENT-CLASS-375-23
US-PATENT-CLASS-455-606
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US-PATENT-CLASS-331-56
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US-PATENT-CLASS-318-254
US-PATENT-CLASS-318-439
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US-PATENT-CLASS-307-354
US-PATENT-CLASS-328-147
US-PATENT-CLASS-328-164
US-PATENT-CLASS-328-28
US-PATENT-4,652,833
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US-PATENT-CLASS-239-434
US-PATENT-CLASS-239-545
US-PATENT-CLASS-73-147
US-PATENT-4,648,267
N87-21304* c 35 ..... NASA-CASE-NPO-15617-1
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US-PATENT-CLASS-74-458
US-PATENT-CLASS-74-468
US-PATENT-CLASS-74-89.15
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US-PATENT-CLASS-376-127
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US-PATENT-CLASS-180-305
US-PATENT-CLASS-280-47.11
US-PATENT-CLASS-296-20
US-PATENT-CLASS-5-81-R
US-PATENT-CLASS-60-415
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US-PATENT-CLASS-340-971
US-PATENT-CLASS-340-975
US-PATENT-CLASS-73-178-R
US-PATENT-4,663-627
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US-PATENT-APPL-SN-725727
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US-PATENT-CLASS-524-548
US-PATENT-CLASS-525-182
US-PATENT-CLASS-526-262
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US-PATENT-4,647,615
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US-PATENT-CLASS-546-262
US-PATENT-CLASS-546-264
US-PATENT-CLASS-564-330
US-PATENT-CLASS-564-396
US-PATENT-CLASS-564-430
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US-PATENT-CLASS-526-176
US-PATENT-CLASS-526-184
US-PATENT-CLASS-526-192
US-PATENT-CLASS-526-193
US-PATENT-4,661,558
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US-PATENT-CLASS-324-158-R
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US-PATENT-CLASS-333-214
US-PATENT-CLASS-333-217
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US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-34
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US-PATENT-CLASS-416-158
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US-PATENT-CLASS-423-284
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NASA-CASE-ARC-11652-1
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US-PATENT-CLASS-136-255
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US-PATENT-CLASS-357-35
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US-PATENT-CLASS-310-30
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US-PATENT-CLASS-60-638
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N87-24575*# c 27 ..... NAS 1.71:LAR-13633-1
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N87-25491* c 31 ..... NASA-CASE-MFS-28044-1
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US-PATENT-CLASS-52-108
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US-PATENT-CLASS-52-648
US-PATENT-4,677,803

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US-PATENT-CLASS-372-69
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US-PATENT-CLASS-292-201
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US-PATENT-CLASS-156-494
US-PATENT-CLASS-264-291
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US-PATENT-CLASS-210-500.35
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US-PATENT-CLASS-156-275.5
US-PATENT-CLASS-156-307.7
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US-PATENT-CLASS-219-130.4
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US-PATENT-CLASS-244-78
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N89-12048* c 35 ..... NASA-CASE-LEW-14297-1
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US-PATENT-CLASS-126-901
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US-PATENT-CLASS-165-904
US-PATENT-4,770,232

N89-12206* # c 54 ..... NAS 1.71:MSC-21366-1
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N89-12551* c 02 ..... NASA-CASE-LAR-13554-1
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US-PATENT-CLASS-116-265
US-PATENT-CLASS-73-147
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US-PATENT-CLASS-212-225
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US-PATENT-CLASS-414-689
US-PATENT-CLASS-414-718
US-PATENT-CLASS-414-735
US-PATENT-4,772,175

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US-PATENT-CLASS-564-323
US-PATENT-CLASS-564-330
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US-PATENT-CLASS-564-396
US-PATENT-CLASS-564-430
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N89-12741* c 27 ..... NASA-CASE-LAR-13506-1
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US-PATENT-CLASS-428-47
US-PATENT-CLASS-428-58
US-PATENT-CLASS-428-71
US-PATENT-CLASS-428-76
US-PATENT-4,774,118

N89-12785* c 31 ..... NASA-CASE-NPO-17065-1-CU
US-PATENT-APPL-SN-087282
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US-PATENT-CLASS-165-96
US-PATENT-CLASS-62-467
US-PATENT-CLASS-62-514-R
US-PATENT-4,771,823

N89-12786* c 31 ..... NASA-CASE-LAR-13438-1
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US-PATENT-CLASS-52-814
US-PATENT-CLASS-52-821
US-PATENT-4,769,966

N89-12841* c 35 ..... NASA-CASE-LAR-13569-1
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US-PATENT-CLASS-73-180
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N89-12842* # c 35 ..... NAS 1.71:MSC-21372-1
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N89-12843* # c 35 ..... NAS 1.71:MSC-21059-1
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N89-12856* # c 36 ..... NAS 1.71:NPO-17282-1-CU
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N89-12866* # c 37 ..... NAS 1.71:MSC-21095-1
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N89-12867* # c 37 ..... NAS 1.71:LAR-13719-1
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US-PATENT-APPL-SN-239260

N89-12868* # c 37 ..... NAS 1.71:MFS-29291-1
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US-PATENT-APPL-SN-250196

N89-13131* # c 51 ..... NAS 1.71:MSC-21294-1
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N89-13236* c 71 ..... NASA-CASE-NPO-16896-1-CU
US-PATENT-APPL-SN-087283
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US-PATENT-4,773,266

N89-13253* # c 74 ..... NAS 1.71:MFS-28183-1
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N89-13496* # c 23 ..... NAS 1.71:LAR-13992-1-CU
NASA-CASE-LAR-13992-1-CU
US-PATENT-APPL-SN-248009

N89-13764* # c 35 ..... NAS 1.71:NPO-17436-1-CU
NASA-CASE-NPO-17436-1-CU
US-PATENT-APPL-SN-237035

N89-13785* c 37 ..... NASA-CASE-NPO-16766-1-CU
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US-PATENT-CLASS-269-267
US-PATENT-CLASS-294-88
US-PATENT-4,770,455

N89-13786* c 37 ..... NASA-CASE-KSC-11368-1
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US-PATENT-CLASS-285-108
US-PATENT-CLASS-285-109
US-PATENT-CLASS-285-133.1
US-PATENT-CLASS-285-351
US-PATENT-CLASS-285-39
US-PATENT-CLASS-285-97
US-PATENT-4,772,050

N89-13787* # c 37 ..... NAS 1.71:NPO-17453-1-CU
NASA-CASE-NPO-17453-1-CU
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N89-13889* # c 54 ..... NAS 1.71:MSC-21364-1
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N89-14077* c 74 ..... NASA-CASE-NPO-17140-1-CU
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US-PATENT-CLASS-250-216
US-PATENT-CLASS-350-354
US-PATENT-4,772,785

N89-14078* c 74 ..... NASA-CASE-NPO-16750-1-CU
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US-PATENT-CLASS-350-331-R
US-PATENT-CLASS-350-337
US-PATENT-CLASS-350-342
US-PATENT-CLASS-382-31
US-PATENT-4,772,101

N89-14120* # c 76 ..... NAS 1.71:NPO-17399-1-CU
NASA-CASE-NPO-17399-1-CU
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N89-14224* c 02 ..... NASA-CASE-LAR-13215-1
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US-PATENT-CLASS-416-223-R
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N89-14233* # c 05 ..... NAS 1.71:LAR-13875-1
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N89-14258* # c 24 ..... NAS 1.71:LAR-13225-1
NASA-CASE-LAR-13225-1
US-PATENT-APPL-SN-248018

N89-14259* # c 24 ..... NAS 1.71:LEW-14472-1
NASA-CASE-LEW-14472-1
US-PATENT-APPL-SN-251499

N89-14303* c 26 ..... NASA-CASE-LEW-14134-2
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US-PATENT-CLASS-420-62
US-PATENT-CLASS-420-79
US-PATENT-CLASS-420-80
US-PATENT-CLASS-420-81
US-PATENT-4,780,276

N89-14337* c 27 ..... NASA-CASE-LAR-13601-1-CU
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US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-128
US-PATENT-4,788,271

N89-14348* # c 31 ..... NAS 1.71:LEW-14295-1
NASA-CASE-LEW-14295-1
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N89-14351* c 31 ..... NASA-CASE-NPO-17143-1-CU
US-PATENT-APPL-SN-105847
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US-PATENT-CLASS-62-514-JT
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N89-14374* c 32 ..... NASA-CASE-GSC-12892-1
US-PATENT-APPL-SN-655606
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US-PATENT-CLASS-455-117
US-PATENT-CLASS-455-67
US-PATENT-CLASS-455-98
US-PATENT-4,777,656

N89-14384* c 33 ..... NASA-CASE-ARC-11536-1
US-PATENT-APPL-SN-725714
US-PATENT-CLASS-342-195
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-364-900
US-PATENT-4,779,222

N89-14385* c 33 ..... NASA-CASE-LAR-13552-1-CU
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US-PATENT-CLASS-324-77-R
US-PATENT-CLASS-324-78-D
US-PATENT-CLASS-324-78-F
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-364-484
US-PATENT-CLASS-371-39
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US-PATENT-CLASS-165-104.26
US-PATENT-4,770,238

N89-14407* c 35 ..... NASA-CASE-LAR-13300-1-CU
US-PATENT-APPL-SN-829042
US-PATENT-CLASS-310-338
US-PATENT-CLASS-367-908
US-PATENT-CLASS-73-290-V
US-PATENT-4,770,038

N89-14422* c 35 ..... NASA-CASE-NPO-17066-1-CU
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US-PATENT-4,777,823

N89-14423* c 35 ..... NASA-CASE-LAR-13853-1
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US-PATENT-CLASS-73-147
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US-PATENT-4,783,994

N89-14428* # c 36 ..... NAS 1.71:LAR-13771-1
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N89-14666* # c 51 ..... NAS 1.71:MSC-21293-1
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N89-15379* c 35 ..... NASA-CASE-MSC-20906-2
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US-PATENT-4,776,541

N89-16042* c 27 ..... NASA-CASE-ARC-11533-2
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US-PATENT-CLASS-528-73
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N89-16256* c 52 ..... NASA-CASE-ARC-11426-2
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US-PATENT-CLASS-351-237
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N89-23623* # c 24 ..... NAS 1.71:LEW-14734-1
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N89-23692* # c 27 ..... NAS 1.71:LAR-14101-1
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US-PATENT-APPL-SN-266045

N89-23738* # c 31 ..... NAS 1.71:MFS-29491-1
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US-PATENT-APPL-SN-279677

N89-24084* # c 62 ..... NAS 1.71:MSC-21348-1
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N89-24153* # c 74 ..... NAS 1.71:NPO-17562-1-CU
NASA-CASE-NPO-17562-1-CU
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N89-25242* c 09 ..... NASA-CASE-MFS-25962-1
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US-PATENT-CLASS-239-2.1
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NASA-CASE-MSC-21360-1
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N89-25266* c 18 ..... NASA-CASE-ARC-11505-2
US-PATENT-APPL-SN-159072
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US-PATENT-CLASS-244-161
US-PATENT-CLASS-285-302
US-PATENT-4,807,834
N89-25279* c 20 ..... NASA-CASE-MSC-20476-2
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US-PATENT-CLASS-239-265.17
US-PATENT-CLASS-60-202
US-PATENT-CLASS-60-264
US-PATENT-4,815,279
N89-25334* # c 27 ..... NAS 1.71:LAR-13925-1
NASA-CASE-LAR-13925-1
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N89-25360* # c 32 ..... NAS 1.71:MSC-21334-1
NASA-CASE-MSC-21334-1
US-PATENT-APPL-SN-292130
N89-25363* c 32 ..... NASA-CASE-LAR-13798-1
US-PATENT-APPL-SN-118995
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US-PATENT-CLASS-343-880
US-PATENT-CLASS-343-915
US-PATENT-4,811,033
N89-25557* # c 51 ..... NAS 1.71:MSC-21361-1
NASA-CASE-MSC-21361-1
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N89-25689* c 74 ..... NASA-CASE-MFS-29348-1
US-PATENT-APPL-SN-156518
US-PATENT-CLASS-350-96.21
US-PATENT-CLASS-350-96.25
US-PATENT-4,798,433
N89-26202* c 35 ..... NASA-CASE-MFS-28242-1
US-PATENT-APPL-SN-149822
US-PATENT-CLASS-356-347
US-PATENT-CLASS-356-361
US-PATENT-4,810,094
N89-26400* c 60 ..... NASA-CASE-NPO-16461-1CU
US-PATENT-APPL-SN-815103
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US-PATENT-CLASS-382-41
US-PATENT-CLASS-382-42
US-PATENT-CLASS-382-49
US-PATENT-4,790,026
N89-26548* # c 14 ..... NAS 1.71:MFS-28376-1
NASA-CASE-MFS-28376-1
US-PATENT-APPL-SN-361479
N89-26547* # c 14 ..... NAS 1.71:LAR-14149-1-SB
NASA-CASE-LAR-14149-1-SB
US-PATENT-APPL-SN-357757
N89-26549* # c 14 ..... NAS 1.71:LEW-14848-1
NASA-CASE-LEW-14848-1
US-PATENT-APPL-SN-362885
N89-26553* c 18 ..... NASA-CASE-MSC-21211-1
US-PATENT-APPL-SN-105841
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US-PATENT-CLASS-244-161
US-PATENT-CLASS-285-226
US-PATENT-CLASS-403-51
US-PATENT-4,809,936
N89-26554* c 18 ..... NASA-CASE-MSC-21117-2
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US-PATENT-CLASS-403-4
US-PATENT-CLASS-52-573
US-PATENT-CLASS-52-648
US-PATENT-4,805,368
N89-26556* # c 18 ..... NAS 1.71:MFS-28327-1
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US-PATENT-APPL-SN-361200
N89-26586* # c 24 ..... NAS 1.71:LAR-13985-1
NASA-CASE-LAR-13985-1
US-PATENT-APPL-SN-386172
N89-26603* # c 25 ..... NAS 1.71:MFS-26049-1-NP
NASA-CASE-MFS-26049-1-NP
US-PATENT-APPL-SN-376487
N89-26621* c 26 ..... NASA-CASE-LAR-13924-1-CU
US-PATENT-APPL-SN-172102
US-PATENT-CLASS-148-159
US-PATENT-CLASS-148-416
US-PATENT-CLASS-148-417
US-PATENT-CLASS-420-529
US-PATENT-CLASS-420-533
US-PATENT-4,820,488
N89-26651* # c 27 ..... NAS 1.71:LEW-14679-1
NASA-CASE-LEW-14679-1
US-PATENT-APPL-SN-381240
N89-26672* c 32 ..... NASA-CASE-LAR-13747-1-CU
US-PATENT-APPL-SN-197191
US-PATENT-CLASS-342-1
US-PATENT-CLASS-342-165
US-PATENT-CLASS-342-5
US-PATENT-4,809,003
N89-26676* c 32 ..... NASA-CASE-NPO-17249-1-CU
US-PATENT-APPL-SN-125666
US-PATENT-CLASS-358-88
US-PATENT-CLASS-358-91
US-PATENT-CLASS-358-92
US-PATENT-4,819,064
N89-26684* # c 32 ..... NAS 1.71:NPO-17628-1-CU
NASA-CASE-NPO-17628-1-CU
US-PATENT-APPL-SN-350813
N89-26713* c 33 ..... NASA-CASE-NPO-17108-1-CU
US-PATENT-APPL-SN-032819
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US-PATENT-CLASS-364-724.05
US-PATENT-CLASS-364-735
US-PATENT-CLASS-364-754
US-PATENT-4,823,299
N89-26793* # c 35 ..... NAS 1.71:MFS-28370-1
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N89-26794* # c 35 ..... NAS 1.71:NPO-16989-1-CU
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US-PATENT-APPL-SN-358027
N89-26795* # c 35 ..... NAS 1.71:NPO-17596-1-CU
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US-PATENT-APPL-SN-361531
N89-26796* # c 35 ..... NAS 1.71:NPO-17526-1-CU
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N89-26816* # c 36 ..... NAS 1.71:LAR-13772-1
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N89-26817* # c 36 ..... NAS 1.71:LAR-14203-1
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N89-26829* # c 37 ..... NAS 1.71:MSC-21408-1
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N89-26831* c 37 ..... NASA-CASE-MFS-28253-1
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N89-26846* # c 37 ..... NAS 1.71:NPO-17785-1-CU
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N89-26967* # c 45 ..... NAS 1.71:NST-00007-1
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N89-29027* # c 54 ..... NAS 1.71:MSC-21629-1
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US-PATENT-APPL-SN-378548
N89-29169* c 72 ..... NASA-CASE-NPO-16789-1-CU
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US-PATENT-CLASS-250-397
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US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-375
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US-PATENT-CLASS-428-698
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US-PATENT-CLASS-264-236
US-PATENT-CLASS-264-257
US-PATENT-CLASS-264-347
US-PATENT-CLASS-264-40.1
US-PATENT-CLASS-264-40.5
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N89-29577* # c 31 ..... NAS 1.71:NPO-17630-1-CU
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US-PATENT-CLASS-381-187
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N90-10132* # c 19 ..... NAS 1.71:LAR-13392-1-CU
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US-PATENT-CLASS-431-352
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US-PATENT-CLASS-60-732
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N90-16124* # c 33 ..... NAS 1.71:NPO-17604-1-CU
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N90-16411* # c 61 ..... NAS 1.71:MSC-21387-1
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N90-16771* # c 09 ..... NAS 1.71:MSC-21470-1
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US-PATENT-CLASS-521-178
US-PATENT-CLASS-521-189
US-PATENT-CLASS-521-82
US-PATENT-CLASS-521-97
US-PATENT-CLASS-521-98
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US-PATENT-CLASS-528-353
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N90-17005* c 32 ..... NASA-CASE-NPO-17325-1-CU
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N90-17008* # c 33 ..... NAS 1.71:MSC-21428-1
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N90-17051* # c 34 ..... NAS 1.71:MFS-28383-1
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N90-17117* c 35 ..... NASA-CASE-LAR-13710-1
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US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-4
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N90-17456* # c 76 ..... NAS 1.71:NPO-17812-1-CU
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N90-18379* # c 04 ..... NAS 1.71:NPO-17820-1-CU
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US-PATENT-APPL-SN-429734
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US-PATENT-CLASS-114-201R
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US-PATENT-CLASS-244-158R
US-PATENT-CLASS-49-253
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US-PATENT-CLASS-244-133
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US-PATENT-CLASS-324-62
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US-PATENT-CLASS-364-482
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US-PATENT-CLASS-219-74
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US-PATENT-4,847,837
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US-PATENT-CLASS-148-13.1
US-PATENT-CLASS-428-641
US-PATENT-CLASS-437-903
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US-PATENT-CLASS-405-188
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US-PATENT-APPL-SN-493864
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US-PATENT-CLASS-372-59
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US-PATENT-CLASS-502-352
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US-PATENT-CLASS-502-339
US-PATENT-CLASS-502-344
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US-PATENT-CLASS-55-160
US-PATENT-CLASS-55-182
US-PATENT-CLASS-55-205
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US-PATENT-CLASS-239-543
US-PATENT-CLASS-55-159
US-PATENT-CLASS-55-46
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US-PATENT-CLASS-342-114
US-PATENT-CLASS-342-195
US-PATENT-4,860,014

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US-PATENT-CLASS-357-55
US-PATENT-CLASS-357-68
US-PATENT-CLASS-357-76
US-PATENT-CLASS-357-81
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US-PATENT-APPL-SN-862942
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US-PATENT-CLASS-361-65
US-PATENT-CLASS-361-79
US-PATENT-CLASS-55-105
US-PATENT-CLASS-55-139
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US-PATENT-4,860,149

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US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-905
US-PATENT-4,838,346

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US-PATENT-CLASS-250-310
US-PATENT-CLASS-360-396-ML
US-PATENT-CLASS-250-396-R
US-PATENT-4,847,502

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US-PATENT-CLASS-901-38
US-PATENT-CLASS-901-39
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US-PATENT-CLASS-530-422
US-PATENT-4,833,233

N90-20696* c 76 ..... NASA-CASE-MFS-25786-2
US-PATENT-APPL-SN-441896
US-PATENT-APPL-SN-811309
US-PATENT-CLASS-156-616.4
US-PATENT-CLASS-156-616.41
US-PATENT-CLASS-422-249
US-PATENT-4,863,553

N90-21061* c 17 ..... NASA-CASE-NPO-17280-1-CU
US-PATENT-APPL-SN-195226
US-PATENT-CLASS-371-041
US-PATENT-CLASS-371-043
US-PATENT-CLASS-371-37.4
US-PATENT-CLASS-371-38.1
US-PATENT-4,907,233

N90-21118* c 23 ..... NASA-CASE-LAR-13965-1-CU
US-PATENT-APPL-SN-221386
US-PATENT-CLASS-526-262
US-PATENT-CLASS-526-322
US-PATENT-CLASS-548-400
US-PATENT-CLASS-548-524
US-PATENT-4,851,544

N90-21170* c 26 ..... NASA-CASE-LAR-13817-1
US-PATENT-APPL-SN-210486
US-PATENT-CLASS-073-801
US-PATENT-CLASS-324-209
US-PATENT-CLASS-324-226
US-PATENT-CLASS-324-227
US-PATENT-CLASS-324-235
US-PATENT-CLASS-324-239
US-PATENT-4,912,411

N90-21177* c 27 ..... NASA-CASE-ARC-11649-2-SB
US-PATENT-APPL-SN-231027
US-PATENT-CLASS-501-88
US-PATENT-CLASS-501-91
US-PATENT-CLASS-501-92
US-PATENT-CLASS-526-10
US-PATENT-CLASS-526-30
US-PATENT-CLASS-526-4
US-PATENT-CLASS-556-402
US-PATENT-4,851,491

N90-21198* c 27 ..... NASA-CASE-LAR-13448-1
US-PATENT-APPL-SN-836654
US-PATENT-CLASS-264-022
US-PATENT-CLASS-522-162
US-PATENT-CLASS-522-165
US-PATENT-CLASS-526-176
US-PATENT-CLASS-526-306
US-PATENT-4,910,233

N90-21209* c 29 ..... NASA-CASE-MFS-26047-1
US-PATENT-APPL-SN-244369
US-PATENT-CLASS-210-205
US-PATENT-CLASS-210-247
US-PATENT-CLASS-210-257.1
US-PATENT-CLASS-210-321.6
US-PATENT-CLASS-210-340
US-PATENT-CLASS-210-94
US-PATENT-CLASS-210-95
US-PATENT-4,909,933

N90-21215* c 31 ..... NASA-CASE-NPO-17278-1-CU
US-PATENT-APPL-SN-172100
US-PATENT-CLASS-181-0.5
US-PATENT-CLASS-361-383
US-PATENT-CLASS-361-384
US-PATENT-CLASS-361-385
US-PATENT-CLASS-62-467
US-PATENT-4,858,717

N90-21216* c 31 ..... NASA-CASE-LAR-14050-1
US-PATENT-APPL-SN-067846
US-PATENT-APPL-SN-237657
US-PATENT-CLASS-164-113
US-PATENT-CLASS-164-284
US-PATENT-CLASS-249-127
US-PATENT-4,865,114

N90-21358* c 35 ..... NASA-CASE-NPO-17235-1-CU
US-PATENT-APPL-SN-116811
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-4
US-PATENT-CLASS-357-58
US-PATENT-CLASS-357-90
US-PATENT-4,860,074

N90-21390* c 37 ..... NASA-CASE-MSC-21436-1
US-PATENT-APPL-SN-313839
US-PATENT-CLASS-102-378
US-PATENT-CLASS-194-82.26
US-PATENT-CLASS-194-82.29
US-PATENT-CLASS-89-1.14
US-PATENT-CLASS-89-1.57
US-PATENT-4,864,910

N90-21519* c 52 ..... NASA-CASE-LAR-13901-1-NP
US-PATENT-APPL-SN-118993
US-PATENT-APPL-SN-929869
US-PATENT-CLASS-126-661.03
US-PATENT-4,852,578

N90-21525* c 60 ..... NASA-CASE-NPO-17205-1-CU
US-PATENT-APPL-SN-143434
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US-PATENT-CLASS-377-114
US-PATENT-CLASS-377-116
US-PATENT-CLASS-377-123
US-PATENT-CLASS-377-126
US-PATENT-CLASS-377-69
US-PATENT-CLASS-377-79
US-PATENT-4,845,728

N90-21527* c 60 ..... NASA-CASE-NPO-16859-1-CU
US-PATENT-APPL-SN-113956
US-PATENT-CLASS-364-229.4
US-PATENT-CLASS-364-267.9
US-PATENT-CLASS-364-940.67
US-PATENT-CLASS-364-942.51
US-PATENT-CLASS-364-944
US-PATENT-CLASS-364-975.5
US-PATENT-CLASS-371-11.3
US-PATENT-4,868,818

N90-21822* c 24 ..... NASA-CASE-LAR-12887-3
US-PATENT-APPL-SN-323236
US-PATENT-CLASS-181-286
US-PATENT-CLASS-181-290
US-PATENT-CLASS-89-36.02
US-PATENT-4,911,062

N90-21951* c 33 ..... NASA-CASE-NPO-17430-1-CU
US-PATENT-APPL-SN-332677
US-PATENT-CLASS-318-434
US-PATENT-CLASS-318-561
US-PATENT-CLASS-318-615
US-PATENT-CLASS-318-616
US-PATENT-CLASS-388-821
US-PATENT-4,912,386

N90-21999* c 34 ..... NASA-CASE-MSC-21271-1
US-PATENT-APPL-SN-252077
US-PATENT-CLASS-165-32
US-PATENT-CLASS-165-46
US-PATENT-CLASS-165-78
US-PATENT-CLASS-165-96
US-PATENT-4,909,313

N90-22023* c 35 ..... NASA-CASE-KSC-11386-1
US-PATENT-APPL-SN-264107
US-PATENT-CLASS-324-329
US-PATENT-4,912,414

N90-22024* c 35 ..... NASA-CASE-LEW-14844-1
US-PATENT-APPL-SN-326766
US-PATENT-CLASS-210-512.1
US-PATENT-CLASS-210-97
US-PATENT-CLASS-55-160
US-PATENT-CLASS-55-203
US-PATENT-CLASS-55-204
US-PATENT-4,911,738

N90-22025* c 35 ..... NASA-CASE-LAR-13816-1
US-PATENT-APPL-SN-165945
US-PATENT-CLASS-422-111
US-PATENT-CLASS-422-126
US-PATENT-CLASS-422-62
US-PATENT-CLASS-422-98
US-PATENT-CLASS-436-137
US-PATENT-CLASS-436-143
US-PATENT-CLASS-436-55
US-PATENT-4,911,890

N90-22042* c 37 ..... NASA-CASE-LAR-13926-1
US-PATENT-APPL-SN-250469
US-PATENT-CLASS-123-193P
US-PATENT-CLASS-29-888.046
US-PATENT-CLASS-92-212
US-PATENT-CLASS-92-213
US-PATENT-CLASS-92-222
US-PATENT-CLASS-92-248
US-PATENT-4,909,133

N90-22383* c 74 ..... NASA-CASE-KSC-11392-1
US PATENT-APPL-SN-262851
US-PATENT-CLASS-250-229
US-PATENT-CLASS-350-356
US-PATENT-4,910,396

N90-22584* c 16 ... INT-PATENT CLASS-B64G-1/14
NASA-CASE-LAR-13486-1
US-Patent-4,884,770
US-PATENT-APPL-SN-076955
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-244-160
US-PATENT-CLASS-244-161
US-PATENT-CLASS-244-172

N90-22724* c 33 .. INT-PATENT-CLASS-H01J-25/34
NASA-CASE-LEW-14520-1
US-Patent-4,890,036
US-PATENT-APPL-SN-130058
US-PATENT-CLASS-315-3
US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-331-82

N90-22769* c 35 .... INT-PATENT-CLASS-B64D-1/00
NASA-CASE-NPO-17390-1-CU
US-Patent-4,886,222
US-PATENT-APPL-SN-205899
US-PATENT-CLASS-244-1R
US-PATENT-CLASS-244-138A
US-PATENT-CLASS-358-109

N90-22770* c 35 ... INT-PATENT-CLASS-H04N-7/18
NASA-CASE-LAR-13740-1
US-Patent-4,885,633
US-PATENT-APPL-SN-205900
US-PATENT-CLASS-250-459.1
US-PATENT-CLASS-250-461.1
US-PATENT-CLASS-358-113
US-PATENT-CLASS-358-93
US-PATENT-CLASS-374-162

N90-23242* c 76 .... INT-PATENT-CLASS-C30B-7/02
NASA-CASE-MFS-28206-1-SB
US-Patent-4,886,646
US-PATENT-APPL-SN-172101
US-PATENT-CLASS-156-DIG.62
US-PATENT-CLASS-156-DIG.72
US-PATENT-CLASS-156-600
US-PATENT-CLASS-156-608
US-PATENT-CLASS-422-245

N90-23390* c 05 .... INT-PATENT-CLASS-B64C-9/02
INT-PATENT-CLASS-B64C-9/08
NASA-CASE-LAR-13983-1
US-PATENT-APPL-SN-192553
US-PATENT-CLASS-244-45A
US-PATENT-CLASS-244-46
US-PATENT-CLASS-244-75R
US-PATENT-CLASS-244-90R
US-PATENT-4,917,333

N90-23415

N90-23415* c 09 ... INT-PATENT-CLASS-C21D-1/09
NASA-CASE-MFS-28281-1
US-PATENT-APPL-SN-205896
US-PATENT-CLASS-148-149
US-PATENT-CLASS-148-4
US-PATENT-CLASS-148-902
US-PATENT-CLASS-148-903
US-PATENT-4,902,354

N90-23475* c 23 .... INT-PATENT-CLASS-C07S-9/40
NASA-CASE-ARC-11425-3
US-PATENT-APPL-SN-054582
US-PATENT-APPL-SN-493864
US-PATENT-APPL-SN-522629
US-PATENT-APPL-SN-641152
US-PATENT-CLASS-558-193
US-PATENT-4,886,896

N90-23480* c 24 ..... NASA-CASE-MFS-29241-1
US-PATENT-APPL-SN-252078
US-PATENT-CLASS-244-158A
US-PATENT-CLASS-428-607
US-PATENT-CLASS-428-623
US-PATENT-CLASS-428-627
US-PATENT-CLASS-428-632
US-PATENT-CLASS-428-666
US-PATENT-CLASS-428-680
US-PATENT-4,877,689

N90-23493* c 24 ..... NASA-CASE-LEW-14719-1
US-PATENT-APPL-SN-326757
US-PATENT-CLASS-419-24
US-PATENT-CLASS-419-36
US-PATENT-CLASS-419-37
US-PATENT-CLASS-419-8
US-PATENT-CLASS-428-551
US-PATENT-CLASS-428-552
US-PATENT-CLASS-75-228
US-PATENT-4,904,538

N90-23497* c 25 ..... NASA-CASE-LEW-14345-2
US-PATENT-APPL-SN-159071
US-PATENT-APPL-SN-924474
US-PATENT-CLASS-260-386
US-PATENT-CLASS-260-395
US-PATENT-CLASS-549-241
US-PATENT-CLASS-562-413
US-PATENT-CLASS-562-415
US-PATENT-CLASS-562-417
US-PATENT-4,885,116

N90-23517* c 25 ..... NASA-CASE-LAR-14155-1-SB
US-PATENT-APPL-SN-298150
US-PATENT-CLASS-502-217
US-PATENT-CLASS-502-218
US-PATENT-CLASS-502-226
US-PATENT-CLASS-502-239
US-PATENT-CLASS-502-241
US-PATENT-CLASS-502-245
US-PATENT-CLASS-502-324
US-PATENT-4,912,082

N90-23541* c 27 .. INT-PATENT-CLASS-F28D-15/02
NASA-CASE-GSC-13199-1
US-PATENT-APPL-SN-304147
US-PATENT-CLASS-122-366
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-905
US-PATENT-4,883,116

N90-23544* c 27 . INT-PATENT-CLASS-G01N-27/72
INT-PATENT-CLASS-G01R-27/00
INT-PATENT-CLASS-G01R-33/12
NASA-CASE-LAR-13485-1
US-PATENT-APPL-SN-133413
US-PATENT-CLASS-264-40.1
US-PATENT-CLASS-324-234
US-PATENT-CLASS-324-238
US-PATENT-CLASS-526-60
US-PATENT-4,891,591

N90-23545* c 27 ..... NASA-CASE-LAR-14188-1
US-PATENT-APPL-SN-087375
US-PATENT-APPL-SN-326392
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-171-175
US-PATENT-CLASS-528-212
US-PATENT-CLASS-548-520
US-PATENT-4,889,912

N90-23548* c 27 ..... NASA-CASE-LAR-13902-1
US-PATENT-APPL-SN-239259
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-185
US-PATENT-CLASS-528-188
US-PATENT-CLASS-528-353
US-PATENT-4,895,972

N90-23556* c 27 .. INT-PATENT-CLASS-B29B-33/02
NASA-CASE-MSC-20782-1
US-PATENT-APPL-SN-213392
US-PATENT-CLASS-264-11
US-PATENT-CLASS-264-28
US-PATENT-CLASS-264-43
US-PATENT-CLASS-264-6
US-PATENT-4,919,852

N90-23586* c 31 .... INT-PATENT-CLASS-B23K-9/16
NASA-CASE-MFS-29489-1
US-PATENT-APPL-SN-279625
US-PATENT-CLASS-219-130
US-PATENT-CLASS-219-75
US-PATENT-4,879,448

N90-23587* c 31 ..... NASA-CASE-NPO-17301-1-CU
US-PATENT-APPL-SN-337767
US-PATENT-CLASS-122-366
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-41
US-PATENT-CLASS-222-187
US-PATENT-CLASS-239-145
US-PATENT-CLASS-417-53
US-PATENT-CLASS-417-572
US-PATENT-4,877,082

N90-23635* c 33 .... INT-PATENT-CLASS-H03B-5/12
NASA-CASE-GSC-13173-1
US-PATENT-APPL-SN-292037
US-PATENT-CLASS-331-116FE
US-PATENT-CLASS-331-117FE
US-PATENT-4,873,498

N90-23636* c 33 .... INT-PATENT-CLASS-G06F-1/02
NASA-CASE-NPO-17241-1-CU
US-PATENT-APPL-SN-113954
US-PATENT-CLASS-364-717
US-PATENT-CLASS-364-746.1
US-PATENT-4,890,252

N90-23700* c 34 .... INT-PATENT-CLASS-B29B-9/10
NASA-CASE-NPO-17203-1-CU
US-PATENT-APPL-SN-250195
US-PATENT-CLASS-264-4
US-PATENT-CLASS-425-5
US-PATENT-CLASS-425-6
US-PATENT-CLASS-425-804
US-PATENT-4,902,450

N90-23706* c 35 .... INT-PATENT-CLASS-A61B-5/00
NASA-CASE-LAR-13775-1
US-PATENT-APPL-SN-248020
US-PATENT-CLASS-128-675
US-PATENT-CLASS-128-748
US-PATENT-CLASS-128-778
US-PATENT-4,873,990

N90-23707* c 35 ... INT-PATENT-CLASS-G01M-9/00
NASA-CASE-LAR-13628-1
US-PATENT-APPL-SN-251438
US-PATENT-CLASS-340-825.69
US-PATENT-CLASS-73-147
US-PATENT-4,896,533

N90-23712* c 35 ... INT-PATENT-CLASS-G01N-3/32
NASA-CASE-LEW-14124-1
US-PATENT-APPL-SN-396263
US-PATENT-CLASS-73-799
US-PATENT-CLASS-73-845
US-PATENT-4,916,954

N90-23713* c 35 ..... NASA-CASE-LAR-14056-1
US-PATENT-APPL-SN-010949
US-PATENT-APPL-SN-251073
US-PATENT-CLASS-364-578
US-PATENT-CLASS-364-900
US-PATENT-CLASS-364-924.4
US-PATENT-CLASS-364-925.1
US-PATENT-CLASS-364-933.8
US-PATENT-CLASS-364-934
US-PATENT-4,918,652

N90-23742* c 37 .... INT-PATENT-CLASS-F03D-9/00
NASA-CASE-LAR-13434-1
US-PATENT-APPL-SN-246594
US-PATENT-CLASS-290-44
US-PATENT-CLASS-290-55
US-PATENT-CLASS-416-9
US-PATENT-4,894,554

N90-23751* c 37 . INT-PATENT-CLASS-B64D-33/04
INT-PATENT-CLASS-F16J-15/46
NASA-CASE-LEW-14695-1
US-PATENT-APPL-SN-292146
US-PATENT-CLASS-239-265.11
US-PATENT-CLASS-277-158
US-PATENT-CLASS-277-34
US-PATENT-4,917,302

N90-23758* c 38 . INT-PATENT-CLASS-G01B-15/06
NASA-CASE-LAR-13724-1
US-PATENT-APPL-SN-125678
US-PATENT-CLASS-378-51
US-PATENT-CLASS-378-58
US-PATENT-4,899,356

N90-24150* c 76 . INT-PATENT-CLASS-G01N-21/64
INT-PATENT-CLASS-G01N-21/84
NASA-CASE-LAR-13963-1
US-PATENT-APPL-SN-232735
US-PATENT-CLASS-356-73
US-PATENT-CLASS-356-73.1
US-PATENT-4,890,915

N90-24168* c 76 .. INT-PATENT-CLASS-B32B-15/08
INT-PATENT-CLASS-B32B-7/02
NASA-CASE-LAR-13678-1
US-PATENT-APPL-SN-176547
US-PATENT-CLASS-340-692
US-PATENT-CLASS-428-216
US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-901
US-PATENT-4,917,940

N90-24169* c 76 ..... NASA-CASE-MFS-28182-1
US-PATENT-APPL-SN-161681
US-PATENT-CLASS-156-DIG.113
US-PATENT-CLASS-156-DIG.62
US-PATENT-CLASS-156-600
US-PATENT-CLASS-156-601
US-PATENT-CLASS-156-607
US-PATENT-CLASS-422-245
US-PATENT-CLASS-422-50
US-PATENT-4,919,899

N90-25196* c 24 ..... NASA-CASE-LAR-13562-1
US-PATENT-APPL-SN-921572
US-PATENT-CLASS-138-141
US-PATENT-CLASS-138-149
US-PATENT-CLASS-138-153
US-PATENT-CLASS-428-35.9
US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-376
US-PATENT-CLASS-428-379
US-PATENT-4,923,751

N90-25197* c 24 ..... NASA-CASE-LAR-13225-1
US-PATENT-APPL-SN-248018
US-PATENT-CLASS-156-153
US-PATENT-CLASS-156-249
US-PATENT-CLASS-156-289
US-PATENT-CLASS-156-344
US-PATENT-CLASS-427-272
US-PATENT-CLASS-427-282
US-PATENT-CLASS-427-290
US-PATENT-4,923,545

N90-25340* c 36 ... INT-PATENT-CLASS-G01P-3/36
NASA-CASE-ARC-11876-1
US-PATENT-APPL-SN-257593
US-PATENT-CLASS-356-28
US-PATENT-CLASS-356-28.5
US-PATENT-4,925,297

N90-25498* c 54 ..... NASA-CASE-MSC-21366-1
US-PATENT-APPL-SN-213880
US-PATENT-CLASS-428-252
US-PATENT-CLASS-428-290
US-PATENT-CLASS-428-328
US-PATENT-CLASS-428-422
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-458
US-PATENT-CLASS-428-474.4
US-PATENT-4,923,741

N90-25583* c 60 .... INT-PATENT-CLASS-H02L-9/04
NASA-CASE-NPO-17525-1-CU
US-PATENT-APPL-SN-279630
US-PATENT-CLASS-380-25
US-PATENT-CLASS-380-45
US-PATENT-CLASS-380-49
US-PATENT-4,926,481

N90-26073*# c 20 ..... NAS 1.71:MSC-21542-1
NASA-CASE-MSC-21542-1
US-PATENT-APPL-SN-470480

N90-26098*# c 25 ..... NAS 1.71:NPO-17480-1-CU
NASA-CASE-NPO-17480-1-CU
US-PATENT-APPL-SN-508386

N90-26166* c 31 .... INT-PATENT-CLASS-B23K-9/24
NASA-CASE-MFS-29491-1
US-PATENT-APPL-SN-279677
US-PATENT-CLASS-219-136
US-PATENT-CLASS-219-75
US-PATENT-4,924,053

N90-26176*# c 31 ..... NAS 1.71:NPO-17569-1-CU
NASA-CASE-NPO-17569-1-CU
US-PATENT-APPL-SN-545236

N90-26292*# c 34 ..... NAS 1.71:NPO-17204-1-CU
NASA-CASE-NPO-17204-1-CU
US-PATENT-APPL-SN-473242

N90-26304*# c 35 ..... NAS 1.71:MFS-28425-1
NASA-CASE-MFS-28425-1
US-PATENT-APPL-SN-527462

N90-26339*# c 37 ..... NAS 1.71:NPO-17917-1-CU
NASA-CASE-NPO-17917-1-CU
US-PATENT-APPL-SN-545015

N90-26340*# c 37 ..... NAS 1.71:MSC-21489-1
NASA-CASE-MSC-21489-1
US-PATENT-APPL-SN-486458

N90-26341*# c 37 ..... NAS 1.71:MSC-21502-1
NASA-CASE-MSC-21502-1
US-PATENT-APPL-SN-470683

N90-26342* # c 37 ..... NAS 1.71:MSC-21540-1
NASA-CASE-MSC-21540-1
US-PATENT-APPL-SN-527508
N90-26384* # c 43 ..... NAS 1.71:NPO-17970-1-CU
NASA-CASE-NPO-17970-1-CU
US-PATENT-APPL-SN-545014
N90-26518* # c 60 ..... NAS 1.71:NPO-17939-1-CU
NASA-CASE-NPO-17939-1-CU
US-PATENT-APPL-SN-543915
N90-26519* # c 60 ..... NAS 1.71:NPO-17954-1-CU
NASA-CASE-NPO-17954-1-CU
US-PATENT-APPL-SN-545019
N90-26684* # c 76 ..... NAS 1.71:NPO-17949-1-CU
NASA-CASE-NPO-17949-1-CU
US-PATENT-APPL-SN-545016
N90-26685* # c 76 ..... NAS 1.71:NPO-17723-1-CU
NASA-CASE-NPO-17723-1-CU
US-PATENT-APPL-SN-506137
N90-26858* # c 18 ..... NAS 1.71:MSC-21420-1
NASA-CASE-MSC-21420-1
US-PATENT-APPL-SN-516573
N90-26859* # c 18 ..... NAS 1.71:MSC-21504-1
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US-PATENT-APPL-SN-516856
N90-26860* # c 18 ..... NAS 1.71:MSC-21534-1
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US-PATENT-APPL-SN-480985
N90-26861* # c 18 ..... NAS 1.71:MFS-28421-1
NASA-CASE-MFS-28421-1
US-PATENT-APPL-SN-481537
N90-26880* # c 24 ..... NAS 1.71:NPO-17858-1-CU
NASA-CASE-NPO-17858-1-CU
US-PATENT-APPL-SN-503487
N90-26881* # c 24 ..... NAS 1.71:LAR-14338-1
NASA-CASE-LAR-14338-1
US-PATENT-APPL-SN-429514
N90-26940* # c 26 ..... NAS 1.71:MFS-28083-1-CU
NASA-CASE-MFS-28083-1-CU
US-PATENT-APPL-SN-531375
N90-26952* # c 27 ..... NAS 1.71:NPO-17826-1-CU
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NASA *patent application specifications* are sold in paper copy and microfiche by the National Technical Information Service. The US-Patent-Appl-SN-number should be used in ordering either paper copy or microfiche from NTIS.

LICENSES FOR COMMERCIAL USE: INQUIRIES AND APPLICATIONS FOR LICENSE

NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations. It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations.

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Associate General Counsel for Intellectual Property, code GP, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB*.

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

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NASA Case Number Prefix Letters	Address of Cognizant NASA Patent Counsel
ARC-xxxxx XAR-xxxxx	Ames Research Center Mail Code: 200-11A Moffett Field, California 94035 Telephone: (415) 694-5104
ERC-xxxxx XER-xxxxx HQN-xxxxx XHQ-xxxxx	NASA Headquarters Mail Code: GP Washington, D.C. 20546 Telephone: (202) 453-2417
GSC-xxxxx XGS-xxxxx	Goddard Space Flight Center Mail Code: 204 Greenbelt, Maryland 20771 Telephone: (301) 286-7351
KSC-xxxxx XKS-xxxxx	John F. Kennedy Space Center Mail Code: PT-PAT Kennedy Space Center, Florida 32899 Telephone: (305) 867-2544
LAR-xxxxx XLA-xxxxx	Langley Research Center Mail Code: 279 Hampton, Virginia 23365 Telephone: (804) 865-3725
LEW-xxxxx XLE-xxxxx	Lewis Research Center Mail Code: 500-318 21000 Brookpark Road Cleveland, Ohio 44135 Telephone: (216) 433-5753
MSC-xxxxx XMS-xxxxx	Lyndon B. Johnson Space Center Mail Code: AL3 Houston, Texas 77058 Telephone: (713) 483-4871
MFS-xxxxx XMF-xxxxx	George C. Marshall Space Flight Center Mail Code: CC01 Huntsville, Alabama 35812 Telephone: (205) 544-0024
NPO-xxxxx XNP-xxxxx FRC-xxxxx XFR-xxxxx WOO-xxxxx	NASA Resident Legal Office Mail Code: 180-801 4800 Oak Grove Drive Pasadena, California 91103 Telephone: (818) 354-2700

PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration
ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the **Federal Register** after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546

FOR FURTHER INFORMATION CONTACT:
Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows:

* * * * *

Subpart 2—Licensing of NASA Inventions

Sec.
1245.200 Scope of subpart.
1245.201 Policy and objective.
1245.202 Definitions.
1245.203 Authority to grant licenses.

Restrictions and Conditions

1245.204 All licenses granted under this subpart.

Types of Licenses

1245.205 Nonexclusive licenses.
1245.206 Exclusive and partially exclusive licenses.

Procedures

1245.207 Application for a license.
1245.208 Processing applications.
1245.209 Notice to Attorney General.
1245.210 Modification and termination of licenses.
1245.211 Appeals.
1245.212 Protection and administration of inventions.
1245.213 Transfer of custody.
1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208; 94 Stat 3023 and 3024.

* * * * *

Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such condition, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the **Federal Register;** or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the **Federal Register,** providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a)(1)(iii)(A) and consideration of nay written objections received during the period, NASA has determined that:

(*1*) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilizaiton by the public;

(*2*) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(*3*) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(*4*) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license, identifying the invention and prospective licensee, has been published in the **Federal Register,** providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

(e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the **Federal Register** in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245 209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or 1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

[FR Doc. 81-31609 Filed 10-30-81; 8:45 am]

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15. Supplementary Notes
Section 2: Indexes

16. Abstract

A subject index is provided for over 4900 patents and patent applications for the period May 1969 through December 1990. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers.

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